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ABSTRACT

This directory of library and film resources for marine and marine-related information is the second volume of a two-volume marine directory set. The listings identify and locate periodicals, indices and abstracts, bibliographies, monographs, films, and filmstrips available within the University of Wisconsin netowrk. The volume number and year of the earliest publication found in the library are provided with each entry in the listings for periodicals, indices, and abstracts. A subject index for the monographs is included. The films listed are available from the Bureau of Audio-Visual Instruction at the Madison campus. A brief description of the content, color, length, and rental fee are included with each film listed. (PR)

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Public
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Report #4
1970

THE UNIVERSITY OF WISCONSIN SEA GRANT PROGRAM

DIRECTORY of MARINE and MARINE-RELATED INFORMATION RESOURCES at THE UNIVERSITY of WISCONSIN

PART II. LIBRARY and FILM RESOURCES

WIS-SG-71-104b

SE 013 270

DIRECTORY OF MARINE AND MARINE RELATED INFORMATION RESOURCES AT THE UNIVERSITY OF WISCONSIN

PART II: LIBRARY AND FILM RESOURCES

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INFORMATION SERVICES DIVISION
December, 1970
Public Information Report #4
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THE UNIVERSITY OF WISCONSIN SEA GRANT PROGRAM

The University of Wisconsin

UNIVERSITY-INDUSTRY RESEARCH PROGRAM

John R. Luedtke
Sea Grant Program
INFORMATION SERVICES DIVISION
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September, 1970

MEMORANDUM

To: All recipients of the Library and Film Resources section of the Directory of Marine and Marine Related Information Resources.

Subject: Your reaction.

It will be very useful for us to know your reaction to this Directory. Only through your individual critiques will we be able to fit the directory concept to your respective needs.

To what degree is the Directory useful to you?

What sections could you make use of? What ones could you not? Why?

How would you improve this Directory?

Other comments and suggestions:

Feel free to continue your comments on the other side of this page. Please return this questionnaire to the above address at your earliest convenience. Thank you for your assistance and cooperation in this effort.

JRL

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INTRODUCTION

INTRODUCTION

Modern science has generated a number of important multidisciplinary fields. The information support required by such fields goes beyond that supplies by traditional library systems. This *Directory of Marine and Marine Related Information Resources at the University of Wisconsin* is intended to help meet this new demand in the area of oceanography, an area which involves such diverse disciplines as bacteriology, botany, engineering, geology, geophysics, meteorology, and zoology. It consolidates a wide range of information resources of use to industrial, governmental, and university personnel involved in the marine sciences.

The Directory is divided into separate parts. PART I: REFERENCE AND REFERRAL RESOURCES contains listings and descriptions of this university's reference and referral services, other regional libraries and information centers, selected national oceanographic data centers, and local, regional, and selected national marine research laboratories and centers. PART II: LIBRARY AND FILM RESOURCES identifies and locates periodicals, indices and abstracts, bibliographies, monographs, films, and filmstrips, available within the university's network.

Since potential user needs will vary considerably, it is felt that a two-part format will allow greater flexibility in usage. One or both parts will be distributed on a general evaluation of the recipient's requirements. Additional copies of both parts are available upon request from the University of Wisconsin Sea Grant Information Service. Because this is an exploratory effort in multidisciplinary services, changes will undoubtedly be necessary to best fulfill the Directory users' needs. A memorandum form has been included as a preface to each volume of this Directory to accommodate suggestions.

LeRoy Zweifel
Director
Information Services

I. LIBRARY RESOURCES

PERIODICALS AVAILABLE ON THE MADISON CAMPUS

A. PERIODICALS AVAILABLE ON THE MADISON CAMPUS

ACADEMIE DES SCIENCES. COMPTES RENDUS HEBDOMADARIES DES SEANCES		
Medical		1961-1965
ACADEMY OF SCIENCES OF THE USSR. DOKLADY. EARTH SCIENCES SECTIONS. (English translation of "Akademiia nauk sssr. Doklady")		
Geography/Geology	124+	1959+
ACTA HYDROPHYSICA.		
Geography/Geology	4+	1957+
ACTA MECHANICA.		
Engineering	1+	1965+
ACTA METALLURGICA. (Summaries in English)		
Engineering	1+	1953+
Physics/Math	1+	1953+
ACTA POLYTECHNICA SCANDINAVICA.		
Chemistry	1-4	1947-1956
(New Series)	1+	1958+
Engineering	1+	1958+
ACTA TECHNICA.		
Engineering	1+	1950+
ADVANCEMENT OF SCIENCE.		
Memorial	1+	1939+
ADVANCES IN BIOENGINEERING AND INSTRUMENTATION.		
Engineering	1+	1966+
Pharmacy	1+	1966+
Agriculture	1+	1966+
ADVANCES IN HIGH PRESSURE RESEARCH.		
Engineering	1+	1966+
ADVANCES IN HYDROSCIENCE.		
Engineering	1+	1964+
ADVANCES IN MARINE BIOLOGY.		
Biology	1+	1963+

Note: The numbers and dates shown on each periodical entry give the volume number and year of the earliest publication found in the library; e.g., ACTA TECHNICA 1+ 1950+ indicates that the library has all issues of the periodical, beginning with volume 1 which is dated 1950.

ADVANCES IN MATERIALS RESEARCH.			
	Engineering	1+	1967+
ADVANCES IN MICROBIOLOGY OF THE SEA.			
	Agriculture	1+	1968+
AGRICULTURAL METEOROLOGY.			
	Geography/Geology	1+	1964+
AIR AND WATER POLLUTION.			
	Engineering	10+	1966+
AKADEMIIA NAUK SSSR. DOKLADY BIOLOGICAL SCIENCES.			
	Biology	various holdings	1964+
AKADEMIIA NAUK SSSR. SIBIRSKOE OTDELENIE.			
	Geography/Geology		1969+
AKADEMIYA NAUK USSR. IZVESTIYA. SERIYA FIZIKA, ATMOSFERY I OKEANA. (Summaries in English)			
	Geography/Geology		1965+
ALASKA DIVISION OF MINES AND MINERALS. MINES AND PETROLEUM BULLETIN.			
	Geography/Geology	11+	1963+
ALBERTA SOCIETY OF PETROLEUM GEOLOGISTS GUIDEBOOK.			
	Geography/Geology		1954+
ASEA JOURNAL. (Allmanna svenska elektriska aktiebolaget)			
	Engineering	28+	1955+
ASEA RESEARCH.			
	Engineering	1+	1958+
ALLOY DIGEST.			
	Engineering		1968+
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS. BULLETIN.			
	Geography/Geology	1+	1917+
AMERICAN FISHERIES SOCIETY. TRANSACTIONS.			
	Biology	1-20, 26+	1870-91, 1897+
AMERICAN MECHANIST.			
	Engineering	2+	1878+
AMERICAN MERCHANT MARINE CONFERENCE. PROCEEDINGS.			
	Engineering	10+	(1935-43), 1944+
AMERICAN METEOROLOGICAL SOCIETY. BULLETIN.			
	Geography/Geology	1+	1920+

AMERICAN MINERALOGIST.	Geography/Geology	1+	1916+
AMERICAN NATURALIST.	Biology	1+	1867+
AMERICAN SOCIETY FOR METALS. TRANSACTIONS.	Engineering	1+	1920+
AMERICAN SOCIETY OF CIVIL ENGINEERS. WATERWAYS AND HARBORS DIVISION. JOURNAL.	Engineering		1956+
AMERICAN WATER RESOURCES ASSOCIATION. PROCEEDINGS OF THE ANNUAL MEETING.	Engineering	1+	1965+
AMERICAN WATER WORKS ASSOCIATION. JOURNAL.	Engineering	1+	1914+
ANGEWANDTE METEOROLOGIE.	Geography/Geology	1+	1951+
ANNALES DES MINES. (Summaries in English)	Engineering	1+	1816+
ANNALI DI GEOFISICA. (Text in English)	Geography/Geology	1+	1948+
ARCHIV FUR FISCHEREIWISSENSCHAFT. (Summaries in English)	Biology	5+	1954+
ARCHIV FUR HYDROBIOLOGIE.	Biology	1+	1950+
ARCHIV FUR METEOROLOGIE, GEOPHYSIK UND BIOKLIMATOLOGIE. SERIE A: METEROLOGIE UND GEOPHYSIK; SERIE B: ALLGEMEINE UND BIOLOGISCHE KLIMATOLOGIE. (Text in English)	Geography/Geology	1+	1948+
ARKIV FOR MINERALOGI OCH GEOLOGI. (Text usually in English)	Geography/Geology	1+	1949+
ATMOSPHERIC AND OCEANIC PHYSICS.	Geography/Geology	1+	1965+
AUSTRALIAN JOURNAL OF INSTRUMENTATION AND CONTROL.	Engineering	21+	1965+
AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH.	Biology	1+	1950+

AUSTRALIAN METEOROLOGICAL MAGAZINE.			
	Geography/Geology	7, 11+	1954, 1955+

B

BATTELLE INSTITUTE MATERIALS SCIENCE. COLLOQUIA.			
	Engineering	2+	1967+
BAYLOR GEOLOGICAL STUDIES. BULLETIN.			
	Geography/Geology	2+	1962+
BEITRAGE ZUR PHYSIK DER ATMOSPHARE. (Text in English)			
	Geography/Geology	1+	1904+
BERG- UND HUTTENMANNISCHE MONATSHEFTE.			
	Engineering	8+	1858+
BERKELEY INTERNATIONAL MATERIALS CONFERENCE. PROCEEDINGS.			
	Engineering	1+	1961+
BIOLOGICAL BULLETIN.			
	Biology	1+	1899+
BIOLOGICAL CONSERVATION.			
	Agriculture	1+	1968+
BIOLOGY COLLOQUIUM.			
	Agriculture		1967
	Biology	various holdings and	1960+
BOLETIN DE INFORMACIONES PETROLERAS.			
	Engineering	356+	1963+
BONNER METEOROLOGISCHE ABHANDLUNGEN. (Text in English)			
	Geography/Geology	1+	1962+
BRITISH CORROSION JOURNAL.			
	Engineering	1+	1965+
BRITISH MUSEUM (NATURAL HISTORY). BULLETIN. MINERALOGY.			
	Geography/Geology		1950+
BULLETIN OF CANADIAN PETROLEUM GEOLOGY.			
	Geography/Geology	1+	1952+
BULLETIN OF FISH CULTURE IN ISRAEL.			
	Biology	6+	1954+

BULLETIN OF MARINE SCIENCE.
Geography/Geology 15+ 1965+
Biology 1+ 1951+
Engineering 19+ 1969+

C

CAHIERS DE BIOLOGIE MARINE. (Summaries in English)
Biology 1+ 1960+

CALIFORNIA FISH AND GAME. (California Department of Fish and Game)
Biology various holdings 1914+

CALIFORNIA. STATE WATER QUALITY CONTROL BOARD. PUBLICATIONS.
Engineering 1+ 1951+

CALIFORNIA. UNIVERSITY. SCRIPPS INSTITUTE OF OCEANOGRAPHY.
Biology 7+ 1927+

CALIFORNIA. UNIVERSITY. WATER RESOURCES CENTER. ARCHIVES. ARCHIVES SERIES REPORT.
Engineering 1+ 1958+

CALIFORNIA. UNIVERSITY. WATER RESOURCES CENTER. CONTRIBUTIONS.
Engineering 1+ 1956+

CALIFORNIA. UNIVERSITY. WATER RESOURCES CENTER. PROGRESS REPORTS.
Engineering 1+ 1960+

CANADA. INLAND WATER BRANCH. SEDIMENT DATE FOR CANADIAN RIVERS.
Geography/Geology 1968+

CANADA. INLAND WATERS BRANCH. SURFACE WATER DATA: QUEBEC.
Geography/Geology 1964+

CANADA. INLAND WATERS BRANCH. TECHNICAL BULLETIN.
Geography/Geology 1+ 1965+

CANADIAN CONTROLS AND INSTRUMENTATION.
Engineering 8+ 1969+

CANADIAN FISH CULTURIST.
Biology 11+ 1951+

CANADIAN JOURNAL OF EARTH SCIENCES.
Geography/Geology 2+ 1965+

CANADIAN MACHINERY AND METALWORKING.
Engineering 78+ 1967+

CANADIAN MINERALOGIST.	Geography/Geology	6+	1957+
CANADIAN MINING AND METALLURGICAL BULLETIN.	Engineering	48+	1956+
CANADIAN MINING JOURNAL.	Engineering	24+	1905+
CANADIAN TRANSPORTATION.	Engineering	1+	1898+
CHEMICAL AND ENGINEERING NEWS.	Agriculture		Current year only
CHEMICAL AND PETROLEUM ENGINEERING.	Engineering	1+	1965+
CHRONIQUE DES MINES ET DE LA RECHERCHE MINIERE. (Summaries in English)	Geography/Geology	14+	1946+
CLAY MINERALS.	Geography/Geology	1+	1947+
COAL AGE.	Engineering	1+	1911+
COASTAL GEOGRAPHY CONFERENCE.	Geography/Geology	1+	1954+
COLLIERY GUARDIAN.	Engineering	97+	1909+
COLORADO SCHOOL OF MINES. QUARTERLY.	Geography/Geology	(23-31), 32+	(1928-36), 1937+
COLORADO STATE UNIVERSITY. DEPARTMENT OF ATMOSPHERIC SCIENCE. REPORT.	Geography/Geology	2+	1962+
COLORADO. STATE UNIVERSITY. FORT COLLINS. HYDROLOGY PAPERS.	Engineering	3+	1964+
CSIRO DIVISION OF FISHERIES AND OCEANOGRAPHY. (Commonwealth Scientific and Industrial Research Organization)	Biology	1-16	1951-1964
CSIRO WILDLIFE RESEARCH.	Biology	1+	1956+
CONFERENCE ON COASTAL ENGINEERING. PROCEEDINGS.	Engineering	6+	1958+

CONFERENCE ON GREAT LAKES RESEARCH.			
	Geography/Geology	10+	1967+
CONTRIBUTIONS IN MARINE SCIENCE.			
	Biology	1+	1945/50+
CONTRIBUTIONS TO MINERALOGY AND PETROLOGY/BEITRAGE ZUR MINERALOGIE UND PETRO.			
	Geography/Geology	1+	1947+
COPEIA.			
	Biology		1930+
CORROSION.			
	Engineering	5+	1949+
CORROSION SCIENCE.			
	Engineering	1+	1961+
CRUSTACEANEA.			
	Biology	1+	1960+
CURRENT LITERATURE IN TRAFFIC AND TRANSPORTATION.			
	Geography/Geology	4+	1963+
	Business		1964+
CURRENT PROJECTS ON ECONOMIC AND SOCIAL IMPLICATIONS OF SCIENCE AND TECHNOLOGY.			
	Pharmacy		1959+
CURRENT SCIENCE.			
	Memorial	1+	1932+
CZECHOSLOVAK HEAVY DUTY.			
	Engineering	1+	1956+

D

DANISH BIOLOGICAL STATION REPORT.			
	Biology		1911-1950
DEEP-SEA RESEARCH.			
	Geography/Geology	1+	1953+
DESALINATION.			
	Engineering	1+	1966+
DESIGN.			
	Memorial	1+	1949+

DESIGN ENGINEERING CONFERENCE. PROCEEDINGS.
Engineering 1+ 1956+

DESIGN NEWS.
Engineering Current year only

DEUTSCHE GESELLSCHAFT FUR GEOLOGISCHE WISSENSCHAFTEN. BERICHTE. REIHE B: MINERALOGIE UND LAGERSTATTENFORSCHUNG.
Geography/Geology 11+ 1966+

DIRECTORY OF COMPUTERIZED INFORMATION IN SCIENCE AND TECHNOLOGY.
Engineering 1968+

DJAKARTA. LEMBAGA PENILITIAN LAUT. PENALITIAN LAUT DI INDONESIA. (Marine Research in Indonesia)
Geography/Geology 1+ 1956+

DROTTNINGHOLM, SWEDEN. STATENS UNDERSOKNINGSOCH FORSOKSANSTALT FOR SOTVATTENSFISKET. REPORT. (Institute of Freshwater Research)
Biology 1+

E

ECOLOGICAL MONOGRAPHS.
Biology 1+ 1931+

ECOLOGICAL REVIEW.
Biology 1947+

ECOLOGICAL SOCIETY OF AMERICA.
Biology 3+ 1919+

ECOLOGY.
Biology 1+ 1920+

ECOLOGY: ADVANCES IN ECOLOGICAL RESEARCH.
Agriculture 1+ 1962+

EFFLUENT AND WATER TREATMENT JOURNAL.
Engineering 5+ 1965+

ELECTROPLATING AND METAL FINISHING.
Engineering 7+ 1954+

ENGINEERING AND MINING JOURNAL.
Engineering 25+ 1876+

ENGINEERING GEOLOGY.
Engineering 1+ 1965+

EM&D: ENGINEERING MATERIALS AND DESIGN.	Engineering	1+	1958+
ENGINEERING NEWS RECORD.	Engineering	78+	1917+
ENVIRONMENTAL RESEARCH.	Agriculture	1+	1967+
ENVIRONMENTAL SCIENCE AND TECHNOLOGY.	Engineering	1+	1967+
	Geography/Geology	1+	1967+
	Agriculture	1+	1967+
ESSA PROFESSIONAL PAPER. ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION.	Geography/Geology	1+	1967+
ERGEBNISSE DER BIOLOGIE.	Biology	1-27	1926-1964
ERGEBNISSE DER LIMNOLOGIE.	Biology	current numbers	
Experientia. (Text in English)	Engineering	1+	1945+

F

FEDERAL INTER-AGENCY SEDIMENTATION CONFERENCE. PROCEEDINGS.	Engineering	2+	1963+
FELSMECHANIK UND INGENIEURGEOLOGIE. ROCK MECHANICS AND ENGINEERING GEOLOGY.	Engineering	1+	1963+
FELSMECHANIK UND INGENIEURGEOLOGIE. ROCK MECHANICS AND ENGINEERING GEOLOGY. SUPPLEMENT.	Biology	1+	1964+
FISHERY AND OCEANOGRAPHY TRANSLATIONS.	Biology	1+	1964+
FLORIDA ACADEMY OF SCIENCES. QUARTERLY JOURNAL.	Memorial	1+	1936+

FLUID POWER INTERNATIONAL CONFERENCE. PROCEEDINGS.		
Engineering		1964+
FOLIA LIMNOLOGICA SCANDINAVICA. (Text mainly in English)		
Biology	various holdings	1943+
FORTSCHRITTE DER MINERALOGIE.		
Geography/Geology	1+	1911+
FRANKLIN INSTITUTE. JOURNAL.		
Engineering	1+	1826+
Physics/Math	183+	1917+
FRESH WATER BIOLOGICAL ASSOCIATION OF THE BRITISH EMPIRE. ANNUAL REPORTS AND SCIENTIFIC PUBLICATIONS.		
Biology	1-22	1939-1963
FRESH WATER BIOLOGICAL ASSOCIATION OF THE BRITISH EMPIRE. REPORT.		
Biology	5-32	1936-1963
FRICTION AND WEAR IN MACHINERY. (A translation of Trenie I Izonos V Mashinakh)		
Engineering	11+	1958+
FRONTIER.		
Engineering	14+	1951+
Forest Products		Current year only
FUEL.		
Engineering	30+	1951+

G

GEOLOGICAL MINING AND METALLURGICAL SOCIETY OF INDIA. BULLETIN.		
Geography/Geology	29+	1964+
GEOLOGICAL MINING AND METALLURGICAL SOCIETY OF INDIA. QUARTERLY JOURNAL.		
Geography/Geology	35+	1963+
GEOPHYSICS. A JOURNAL OF GENERAL AND APPLIED GEOPHYSICS.		
Engineering	31+	1966+
GEOTECTONICS.		
Geography/Geology		1967+
GLUECKAUF.		
Engineering	43+	1907+

GOTHENBURG, SWEDEN. CHALMERS LEKNISKA. HOGSKOLAS. HANDLINGAR. (Chalmers University of Technology. Text in English)

Engineering	1+	1941+
Physics/Math	14-23	

GREAT BRITAIN. DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH. WATER POLLUTION RESEARCH BOARD. REPORT.

Engineering	12-23, 25+	1939-47, 1949+

GREAT BRITAIN. DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH. WATER AND INDUSTRIAL RESEARCH BOARD. TECHNICAL PAPER.

Engineering	1-6, 8+	1929-37, 1941+

GREAT BRITAIN. MINISTRY OF AGRICULTURE. FISHERIES AND FOOD.

Biology	23+	1960+

GREAT LAKES FISHERY COMMISSION. REPORT.

Biology		1956+

GREAT LAKES FISHERY COMMISSION. TECHNICAL REPORTS.

Biology	1-10	1961-1965

GREAT LAKES NEWS LETTER.

Historical	1+	1956+

GROUND WATER.

Geography/Geology	5+	1967+

H

HEAT TRANSFER AND FLUID MECHANICS INSTITUTE. PROCEEDINGS.

Engineering	4+	1951+

HIDROLOGIAI KOZLONY. (Summaries in English)

Engineering	34+	1954+

HIDROTHEHNICA, GOSPODARIREA APELOR, METEOROLOGIA. (Summaries in English)

Engineering	3+	1958+

HITACHI REVIEW.

Engineering	1+	1952+

HOKKAIDO DAIGAKU, SAPPORO, JAPAN. SUISANGAKUBU, HOKODATE. MEMOIRS. (Faculty of Fisheries)

Memorial	2+	1953+

HOUILLE BLANCHE. (Text in English)

Engineering	3+	1948+

HOVERING CRAFT AND HYDROFOIL.	Engineering	7+	1967+
HYDRAULIC PNEUMATIC POWER.	Engineering		1969+
HYDROBIOLOGIA.	Biology	1+	1948+
HYDROSPACE.	Engineering	1+	1969+

I

ICHTHYOLOGICA.	Biology	current numbers	
ILLINOIS. WATER SURVEY. BULLETIN.	Engineering	1+	1897+
INDIAN ACADEMY OF SCIENCES. PROCEEDINGS.	Memorial	1+	1934+
INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS.	Geography/Geology	1+	1950+
INDIAN JOURNAL OF POWER AND RIVER VALLEY DEVELOPMENT.	Engineering	12+	1962+
INDIAN MINERALOGIST.	Geography/Geology	1+	1960+
INDIAN MINERALS.	Geography/Geology	1+	1946+
INDUSTRIAL BULLETIN.	Memorial	1+	1962+
INDUSTRIAL RESEARCH.	Engineering	10+	1968+
INDUSTRIAL WATER ENGINEERING.	Engineering	4+	1967+
INDUSTRY AND NATURAL RESOURCES.	Geography/Geology	1+	1962+
INSTITUTE OCEANOGRAPHIQUE. BULLETIN. (Text in English)	Geography/Geology	45+	1948+

INSTITUTE OF ENVIRONMENTAL SCIENCES. PROCEEDINGS.		
Engineering		1964+
INSTITUTE OF NAVIGATION. JOURNAL.		
Engineering	2-3, 6+	1949-50, 1953+
INSTITUTE OF SEWAGE PURIFICATION. JOURNAL OF PROCEEDINGS.		
Engineering		(1908-22), 1924+
INSTITUTION OF ENGINEERS (INDIA). JOURNAL. MINING AND METALLURGY DIVISION.		
Engineering	40+	1959+
INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND. TRANSACTIONS.		
Engineering	48+	1904+
INSTITUTION OF MINING AND METALLURGY. BULLETIN AND TRANSACTIONS.		
Engineering	1+	1892+
Geography/Geology	75+ (Sect. B. only)	1966+
INSTITUTION OF WATER ENGINEERS. JOURNAL.		
Engineering	1+	1947+
INSTRUMENT ENGINEER.		
Engineering		1952+
INSTRUMENT PRACTICE.		
Engineering	8+	1954+
INSTRUMENT REVIEW.		
Engineering	1-4	1954-57
INSTRUMENT SOCIETY OF AMERICA. TRANSACTIONS.		
Engineering	1+	1962+
INSTRUMENTATION.		
Engineering	1+	1943+
INSTRUMENTATION IN THE CHEMICAL AND PETROLEUM INDUSTRIES.		
Engineering	1+	1964+
INSTRUMENTATION TECHNOLOGY.		
Engineering	1+	1954+
INSTRUMENTS AND CONTROL SYSTEMS.		
Engineering	1+	1928+
Forest Products	1+	1928+
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES. (English translation of "pribory i Tekhnika Eksperimenta")		
Engineering		1961+
Physics/Math		1958-60, 1962+

INSTRUMENTS AND LABORATORIES.	Physics/Math	1+	1957+
INTER-AMERICAN TROPICAL TUNA COMMISSION. BULLETIN.	Biology	1+	1954+
INTERDOK. DIRECTORY OF PUBLISHED PROCEEDINGS.	Engineering	1+	1965+
INTERNATIONAL ASSOCIATION OF NAVIGATION CONGRESSES.	Engineering	1+	1926+
INTERNATIONAL ASSOCIATION OF SCIENTIFIC HYDROLOGY. BULLETIN.	Geography/Geology	1+	1956+
INTERNATIONAL ASSOCIATION OF THEORETICAL AND APPLIED LIMNOLOGY.	Biology	various holdings	1923+
INTERNATIONAL CONFERENCE ON WATER POLLUTION RESEARCH. ADVANCES IN WATER POLLUTION RESEARCH. PROCEEDINGS.	Engineering	1+	1962+
INTERNATIONAL CONGRESS OF NAVIGATION. PUBLICATIONS.	Engineering	5+	1892+
INTERNATIONAL CONGRESS ON METALLIC CORROSION. PROCEEDINGS.	Engineering	1+	1961+
INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA. JOURNAL.	Biology		1926+
INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA. REPORTS AND MINUTES OF MEETINGS.	Biology	various holdings	1902+
INTERNATIONAL HYDROGRAPHIC REVIEW.	Geography/Geology	1+	1923+
INTERNATIONAL JOURNAL OF BIOMETEOROLOGY.	Biology	1+	1957+
INTERNATIONAL JOURNAL OF MACHINE TOOL DESIGN AND RESEARCH.	Engineering	1+	1961+
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES.	Engineering	1+	1964+
INTERNATIONAL MARINE SCIENCE.	Geography/Geology	1+	1963+
INTERNATIONAL MINING CONGRESS. PROCEEDINGS.	Engineering	4+	1965+

INTERNATIONAL RESEARCH AND TECHNOLOGY JOURNAL.	Engineering	1+	1967+
INTERNATIONAL SCIENCE AND TECHNOLOGY.	Engineering	1+	1962+
INTERNATIONAL SYMPOSIUM ON MINING RESEARCH, ROLLA, MO.	Engineering		1961+
INTERNATIONAL TELEMETERING CONFERENCE. PROCEEDINGS.	Engineering	1+	1965+
INTERNATIONAL WATER SUPPLY ASSOCIATION CONGRESS. MINUTES, REPORTS AND PROCEEDINGS.	Engineering	5+	1961+
ISRAEL JOURNAL OF EARTH SCIENCES.	Geography/Geology	7+	1958+

J

JAPAN. HYDROGRAPHIC DEPARTMENT. THE OCEANOGRAPHIC BULLETIN.	Geography/Geology	1-6	1947-49
JAPAN. KISHOCHO. RESULTS OF MARINE METEOROLOGICAL AND OCEANOGRAPHICAL OBSERVATION.	Geography/Geology	1+	1950+
JAPANESE JOURNAL OF LIMNOLOGY.	Biology	1+	1931+
JAPANESE SOCIETY OF SCIENTIFIC FISHERIES. BULLETIN.	Memorial	various holdings	1932+
JOHN HOPKINS OCEANOGRAPHIC STUDIES.	Geography/Geology	1+	1962+
JOURNAL DE MECANIQUE ET DE PHYSIQUE DE L'ATMOSPHERE.	Geography/Geology	1+	1949+
JOURNAL OF AGRICULTURAL METEOROLOGY.	Geography/Geology	1+	1943+
JOURNAL OF ANIMAL ECOLOGY.	Biology	1+	1932+
JOURNAL OF APPLIED METEOROLOGY.	Geography/Geology	1+	1962+

JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY.			
	Geography/Geology	1+	1962+
JOURNAL OF ECOLOGY.			
	Biology	1+	1913+
JOURNAL OF ENVIRONMENTAL SCIENCES.			
	Engineering	3-6, 10+	1960-63, 1963+
JOURNAL OF EXPERIMENTAL MARINE BIOLOGY AND ECOLOGY.			
	Biology	1+	1967+
JOURNAL OF GEOPHYSICAL RESEARCH.			
	Physics/Math	1+	1896+
	Geography/Geology	64+	1959+
JOURNAL OF HYDROLOGY.			
	Geography/Geology	1+	1963+
	Engineering	5+	1967+
JOURNAL OF MARINE RESEARCH.			
	Biology	1+	1937+
JOURNAL OF MATERIALS.			
	Engineering	1+	1966+
	Forest Products	1+	1966+
JOURNAL OF MATERIALS SCIENCE.			
	Engineering	1+	1966+
JOURNAL OF PETROLOGY.			
	Geography/Geology	1+	1960+
JOURNAL OF RESEARCH. SECTION C: ENGINEERING AND INSTRUMENTATION. (National Bureau of Standards)			
	Forest Products	63+	1959+
JOURNAL OF SCIENTIFIC INSTRUMENTS.			
	Engineering	1+	1923+
	Physics/Math	1+	1923+
	Forest Products	43+	1966+
JOURNAL OF SEDIMENTARY PETROLOGY.			
	Geography/Geology	1+	1931+
JOURNAL OF SHIP RESEARCH.			
	Engineering	1+	1957+
JOURNAL OF SOIL AND WATER CONSERVATION.			
	Agriculture	1+	1946+

JOURNAL OF TERRAMECHANICS.			
	Engineering	1+	1964+
JOURNAL OF THE WATER POLLUTION CONTROL FEDERATION.			
	Engineering	1+	1928+
JOURNAL OF WILDLIFE MANAGEMENT.			
	Biology	1+	1937+
JOURNAL OF THE ATMOSPHERIC SCIENCES.			
	Geography/Geology	1+	1944+

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L'EAU.			
	Engineering	44+	1957+
LIMNOLOGICA.			
	Biology	1+	1962+
LIMNOLOGY AND OCEANOGRAPHY.			
	Geography/Geology	1+	1956+
	Biology	1+	1956+
LITHOS.			
	Geography/Geology	1+	1968+
LIVERPOOL UNIVERSITY. MARINE BIOLOGICAL STATION. REPORT.			
	Biology	46+	1933+

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MACHINE AND TOOL BLUE BOOK.			
	Engineering	62+	1967+
MACHINES AND TOOLING. (English translation of "Stankii Instrument")			
	Engineering	36+	1965+
MACHINE DESIGN.			
	Engineering	1+	1929+
MACHINERY.			
	Engineering	1+	1894+
MACHINERY AND PRODUCTION ENGINEERING.			
	Engineering	110+	1967+

MARCONI REVIEW.	Engineering	16+	1953+
MARINE BIOLOGICAL ASSOCIATION OF INDIA. JOURNAL.	Memorial	6+	1965+
MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM. JOURNAL.	Biology	3+	1889+
MARINE BIOLOGY.	Biology	1+	1963+
MARINE BIOLOGY. INTERNATIONAL JOURNAL OF LIFE IN OCEANS AND COASTAL WATERS.	Biology	1+	1967+
MARINE ENGINEERING/LOG.	Engineering	5+	1900+
MARINE GEOLOGY.	Geography/Geology	3+	1965+
MARINE OBSERVER.	Geography/Geology	18+	1948+
MARINE REVIEW.	Engineering	23-65	1900-1935
MARINE SCIENCES INSTRUMENTATION.	Engineering	1+	1961+
	Biology	1+	1961+
MARINE TECHNOLOGY.	Engineering	1+	1964+
MARINE TECHNOLOGY SOCIETY. TRANSACTIONS OF THE CONFERENCE AND EXHIBIT.	Engineering	3+	1967+
MARINER'S MIRROR.	Memorial	39+	1953+
MARINERS WEATHER LOG	Geography/Geology	1+	1957+
MARITIME TRANSPORTATION RESEARCH SYMPOSIUM. PROCEEDINGS.	Engineering	1+	1956+
MASCHINENBAU.	Engineering	16+	1967+
MATERIAL HANDLING ENGINEERING DIRECTORY AND HANDBOOK.	Engineering		1948+

MATERIALS ENGINEERING.		
Forest Products		Current year only
MATERIALS EVALUATION.		
Engineering	13+	1956+
Forest Products	20+	1962+
MATERIALS HANDLING CONFERENCE.		
Engineering	2+	1948+
MATERIALS IN DESIGN ENGINEERING.		
Engineering	39+	1954+
MATERIALS PROTECTION.		
Engineering	7+	1968+
MATERIALS RESEARCH AND STANDARDS.		
Engineering	1+	1961+
Forest Products	1+	1961+
MATERIALS SCIENCE AND ENGINEERING.		
Engineering	1+	1966+
MATERIALS SCIENCE RESEARCH.		
Engineering	1+	1963+
MEASUREMENT TECHNIQUES. (English translation of "Izmeritel'naia Tekhnika")		
Engineering		1961+
MESURES, REGULATION, AUTOMATISME.		
Engineering	18+	1953+
METALS AND MATERIALS AND METALLURGICAL REVIEWS.		
Engineering	1+	1967+
METAL FINISHING.		
Engineering	5+	1907+
METEOROLOGICAL MAGAZINE.		
Geography/Geology	76+	1947+
METEOROLOGICAL SOCIETY OF JAPAN. JOURNAL/KISHO SHUSHI. SERIES 2+. (Text in English)		
Geography/Geology	1+	1923+
METEOROLOGIE.		
Geography/Geology	1+	1936+
METEOROLOGIIA I GIDROLOGIIA.		
Geography/Geology		1959+

METEOROLOGISCHE RUNDSCHAU.			
	Geography/Geology	1+	1947+
MIAMI. UNIVERSITY. CORAL GABLES, FLORIDA. INSTITUTE OF MARINE SCIENCE. STUDIES OF TROPICAL OCEANOGRAPHY.			
	Geography/Geology	1+	1963+
MICHIGAN. UNIVERSITY. GREAT LAKES RESEARCH DIVISION. PUBLICATION.			
	Geography/Geology	1+	1956+
MICROTECNIC. (Text in English)			
	Engineering	1+	1947+
MINERAL INDUSTRIES.			
	Engineering	23+	1953+
MINERAL INDUSTRIES JOURNAL.			
	Engineering	1+	1954+
MINERAL WEALTH.			
	Geography/Geology		1965+
MINERALIUM DEPOSITA. (Text in English)			
	Geography/Geology	1+	1966+
MINERALOGICAL JOURNAL.			
	Geography/Geology	1+	1953+
MINERALOGICAL MAGAZINE.			
	Geography/Geology	1+	1876+
MINERALOGICAL SOCIETY OF AMERICA. SPECIAL PAPER.			
	Geography/Geology	1+	1963+
MINERALOGISCHE UND PETROGRAPHISCHE MITTEILUNGER. (Series 2+)			
	Geography/Geology	1+	1878+
MINING CONGRESS JOURNAL.			
	Engineering	1+	1915+
MINING DIRECTORY OF MINNESOTA.			
	Engineering		1924+
MINING ENGINEER.			
	Engineering	1+	1960+
MINING ENGINEERING.			
	Engineering	1+	1949+
	Geography/Geology		Two current years only
MINING GEOLOGICAL AND METALLURGICAL INSTITUTE OF INDIA. TRANSACTIONS.			
	Geography/Geology	60+	1963+

MINING JOURNAL.	Engineering	81+	1907+
MINING MAGAZINE.	Engineering	1+	1909+
MINING SYMPOSIUM.	Engineering	21+	1960+
MODERN MANUFACTURING.	Engineering	21+	1892+
MODERN MATERIALS: ADVANCES IN DEVELOPMENT AND APPLICATIONS.	Engineering	1+	1958+
MODERN MATERIALS HANDLING.	Engineering	1+	1946+
MODERN METALS.	Engineering	1+	1945+
MODERN PACKAGING.	Engineering	31+	1957+
	Forest Products.	16+	1942+
MODERN PACKAGING ENCYCLOPEDIA.	Forest Products		1924+
	Agriculture		1952+
MONTHLY WEATHER REVIEW.	Geography/Geology	15-41, 52+	1887-1913, 1924+
MOODY'S TRANSPORTATION MANUAL. RAILROADS, AIRLINES, SHIPPING, TRACTION, BUS AND TRUCKLINES. AMERICAN AND FOREIGN.	Memorial		1954+

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NATIONAL ACADEMY OF SCIENCES. NATIONAL RESEARCH COUNCIL. NEWS REPORT.	Computing Center	various holdings	
NATIONAL ACADEMY OF SCIENCES. PROCEEDINGS.	Pharmacy	53+	1965+
	Agriculture	12+	1926+
	Memorial	1+	1915+
NATIONAL PETROLEUM NEWS.	Engineering	34+	1942+

NATIONAL RESEARCH COUNCIL. COMMITTEE ON A TREATISE ON MARINE ECOLOGY AND PALEOECOLOGY. REPORT.

Geography/Geology	1-11	1940-1951

NATIONAL RESEARCH INSTITUTE FOR METALS, TOKYO. TRANSACTIONS.

Engineering	1+	1959+

NATIONAL TELEMETERING CONFERENCE. COMPLETE PAPERS.

Engineering		1952+

NATURAL RESOURCES JOURNAL.

Agriculture	1+	1961+

NATURE.

Engineering	154+	1944+
Physics/Math	64+	1901+
Pharmacy	(157-171), 172+	(1946-52), 1953+

NATURE AND RESOURCES.

Geography/Geology	1+	1965+

NAUTICAL ALMANAC.

Memorial	various holdings from 1858 on, and	1957+

NAVAL ENGINEERS JOURNAL.

Engineering	13+	1901+

NAVAL RESEARCH LOGISTICS QUARTERLY.

Engineering	1+	1954+

NAVAL RESEARCH REVIEWS.

Physics/Math	16+	1963+
Forest Products		Current year only

NAVAL SHIP SYSTEMS COMMAND TECHNICAL NEWS.

Forest Products		Current year only

NAVIGATION.

Engineering	1+	1946+

NAVY CIVIL ENGINEER, THE.

Engineering	1+	1960+

NETHERLANDS JOURNAL OF SEA RESEARCH.

Memorial	1+	1961+

NEUES JAHRBUCH FUR MINERALOGIE. ABHANDLUNGEN.

Geography/Geology	81+	1950+

NEUES JAHRBUCH FUR MINERALOGIE. MONATSHEFTE.

Geography/Geology		1943+

NEW ENGLAND WATER WORKS ASSOCIATION. JOURNAL.		
Engineering	4+	1889+
NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS.		
Geography/Geology	1+	1958+
NEWS OF WISCONSIN SOIL AND WATER CONSERVATION DISTRICTS.		
Agriculture	1+	1950+
NORTH AMERICAN WILDLIFE AND NATURAL RESOURCES CONFERENCE. TRANSACTIONS.		
Agriculture	1+	1936+

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OCEAN ENGINEERING.		
Engineering	1+	1968+
Geography/Geology	1+	1968+
OCEAN SCIENCE NEWS.		
Geography/Geology	1+	1966+
OCEANS.		
Engineering	1+	1969+
OCEANIC OBSERVATIONS OF THE PACIFIC.		
Geography/Geology		1949-1960
OCEANOGRAPHICAL MAGAZINE.		
Geography/Geology	1+	1949+
OCEANOGRAPHY AND MARINE BIOLOGY.		
Geography/Geology	1+	1963+
Biology	1+	1963+
OCEANOLOGY.		
Geography/Geology	1+	1961+
OCEANOLOGY INTERNATIONAL.		
Engineering	4+	1969+
Geography/Geology	2+	1967+
OFFICIAL GUIDE OF THE RAILWAYS AND STEAM NAVIGATION LINES OF THE UNITED STATES, PUERTO RICO, CANADA, MEXICO AND CUBA, AIRLINE SCHEDULES.		
Memorial	latest issue	
OIKOS, ACTA, OECOLOGICA SCANDINAVICA. (Text in English)		
Biology	1+	1949+
OPHELIA. (Text in English)		
Biology		Current issue

OPTIMA.			
	Memorial	1+	1951+
OREGON FISH COMMISSION. RESEARCH BRIEFS.			
	Biology	1+	1948+
OSAKA SHIRITSU DAIGAKU. RIKOGAKUBW. (Journal of the Institute of Polytechnics, Osaka City University. Series G: Geoscience)			
	Geography/Geology	1+	1954+
OUR PUBLIC LANDS.			
	Agriculture	1+	1951+
	Forest Products		Current year only
OVERSEAS GEOLOGY AND MINERAL RESOURCES.			
	Geography/Geology	1+	1950+

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PACIFIC NORTHWEST INDUSTRIAL WASTE CONFERENCE. PROCEEDINGS.			
	Engineering	12+	1965+
PACIFIC SCIENCE.			
	Memorial	1+	1947+
PAPERS IN METEOROLOGY AND GEOPHYSICS.			
	Geography/Geology	1+	1950+
PAPERS IN PHYSICAL OCEANOGRAPHY AND METEOROLOGY.			
	Geography/Geology	1-13	1930-1958
PENNSYLVANIA. STATE UNIVERSITY. EARTH AND MINERAL SCIENCES EXPERIMENT STATION. BULLETIN.			
	Engineering	1+	1922+
PENNSYLVANIA. STATE UNIVERSITY. INSTITUTE FOR RESEARCH ON LAND WATER RESOURCES.			
	Engineering	1+	1964+
PETROLEUM ENGINEER.			
	Engineering	34+	1962+
PETROLEUM GEOLOGY. (English translation of "Geologiianefti")			
	Geography/Geology	2+	1958+
PHILIPPINE JOURNAL OF FISHERIES.			
	Memorial	1+	1951+
PHYSICS AND CHEMISTRY OF THE EARTH.			
	Chemistry	1+	1956+
	Geography/Geology	1+	1956+

PRECISION METAL MOLDING.		
Engineering	1-16	1943-1958
PROCEEDINGS IN PRINT.		
Engineering	1+	1964+
PROGRESS IN MATERIALS SCIENCE.		
Engineering	1+	1949+
PROGRESS IN OCEANOGRAPHY.		
Engineering	1+	1963+
Geography/Geology	1+	1963+
PROGRESS IN TECHNOLOGY.		
Engineering	1+	1961+
PROGRESSIVE FISH-CULTURIST.		
Biology		1934+
PUBLICATIONS IN CLIMATOLOGY.		
Geography/Geology	1+	1948+

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QUARTERLY REVIEW OF BIOLOGY.		
Biology	1+	1926+
QUEBEC. STREAMS COMMISSION. REPORT.		
Engineering	2+	1913+
QUEENSLAND GOVERNMENT MINING JOURNAL.		
Engineering	33+	1932+

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RECORDS OF OCEANOGRAPHIC WORKS IN JAPAN.		
Geography/Geology	1-12	1928-1941
(New Series)	5+	1963+
RECORDS OF OCEANOGRAPHIC WORKS IN JAPAN. SPECIAL NUMBER.		
Geography/Geology	1-6	1957-1962
REFERATIVNII ZHURANAL: GEOLOGIIA. MOSCOW.		
Geography/Geology		1968+
REFERATIVNII ZHURNAL: GEOGRAFIIA. MOSCOW.		
Geography/Geology		1966+

REGELUNGSTECHNISCHE PRAXIS.	Engineering	1+	1959+
RESEARCH CENTERS DIRECTORY.	Engineering	1+	1960+
RESEARCH/DEVELOPMENT MAGAZINE.	Engineering	7+	1956+
RESEARCH NEWS.	Engineering	19+	1968+
RESEARCH ENGINEER, THE.	Engineering	1+	1946+
REVIEW OF SCIENTIFIC INSTRUMENTS.	Forest Products	4+	1933+
REVIEWS IN ENGINEERING GEOLOGY.	Engineering	1+	1962+
	Geography/Geology	1+	1962+
REVIEWS OF DATA ON SCIENCE RESOURCES.	Pharmacy	1+	1964+
REVUE DE L'INDUSTRIE MINERALE. (Summaries in English)	Engineering	1-27	1921-1947
		19-33	1949-1952
REVUE DES QUESTIONS SCIENTIFIQUES.	Memorial	118+	1947+
ROCK MECHANICS SYMPOSIUM. PROCEEDINGS.	Engineering	1+	1962+
	Geography/Geology	1+	1962+
ROCK PRODUCTS.	Engineering	27+	1924+
ROCKEFELLER INSTITUTE REVIEW.	Medical	1+	1963+
ROYAL DUBLIN SOCIETY. SCIENTIFIC PROCEEDINGS.	Memorial	1+	1959+
ROYAL INSTITUTION OF GREAT BRITAIN. PROCEEDINGS.	Memorial	1+	1851+
ROYAL INSTITUTION OF NAVAL ARCHITECTS. TRANSACTIONS.	Engineering	108+	1966+

ROYAL METEROLOGICAL SOCIETY. QUARTERLY JOURNAL.		
Geography/Geology	18+	1892+
RUSSIAN ENGINEERING JOURNAL. (English translation of "Vestnik Mashinostroeniya")		
Engineering	45+	1965+
RUSSIAN MACHINE TOOLS. ABSTRACTS AND REPORTS.		
Engineering	1+	1963+

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SALINE WATER CONVERSION PROGRESS REPORT.		
Engineering	123+	1964+
SALMON AND TROUT MAGAZINE.		
Biology	various holdings	1942+
SCHWEIZERISCHE MINERALOGISCHE UND PETROGRAPHISCHE MITTEILUNGEN.		
Geography/Geology	1+	1921+
SCHWEIZERISCHE ZEITSCHRIFT FUR HYDROLOGIE. (Summaries in English)		
Biology	1-8, 11+	1920-36, 1948+
SCIENCE.		
Engineering	101+	1945+
Chemistry	134+	1961+
Physics/Math	87+	1938+
Memorial	1+	1895+
Agriculture	14+	1901+
SCIENCE AND TECHNOLOGY.		
Engineering	1+	1962+
SCIENCE JOURNAL.		
Engineering	5+	1969+
SCIENCE NEWS.		
Physics/Math	11-32, 35+	1927-37, 1939+
SCIENCE PROGRESS.		
Memorial	1+	1906+
SCIENCE TOOLS.		
Engineering	1+	1954+
SCIENTIA. (Text in English)		
Memorial	1+	1907+

SCIENTIFIC AMERICAN.	Engineering	1+	1859+
	Physics/Math		Current year only
SCIENTIFIC WORLD.	Memorial	1+	1957+
SCOTTISH MARINE BIOLOGICAL ASSOCIATION. ANNUAL REPORT.	Biology		1939-1954
SCOTTISH MARINE BIOLOGICAL ASSOCIATION. COLLECTED REPRINTS.	Biology		1948-1963
SEA FRONTIERS.	Geography/Geology	6+	1960+
SEA HORSE, THE.	Geography/Geology	2+	1966+
SEDIMENTARY GEOLOGY.	Geography/Geology	1+	1967+
SEDIMENTOLOGY.	Geography/Geology	1+	1962+
SIERRA CLUB BULLETIN.	Biology	53+	1968+
SOCIETE FRANCAISE DE MINERALOGIE ET DE CRISTALLOGRAPHIE. BULLETIN.	Geography/Geology	1+	1878+
SOCIETY FOR WATER TREATMENT AND EXAMINATION. PROCEEDINGS.	Engineering	16+	1967+
SOCIETY OF INSTRUMENT TECHNOLOGY. TRANSACTIONS.	Engineering	1+	1947+
SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS, NEW YORK.	Engineering	1+	1893+
SOCIETY OF PETROLEUM ENGINEERS OF AIMMPE. JOURNAL.	Engineering	8+	1968+
SOUTH AFRICAN INSTITUTE OF MINING AND METALLURGY. JOURNAL.	Engineering	6+	1905+
SOUTHERN MUNICIPAL AND INDUSTRIAL WASTE CONFERENCE. PROCEEDINGS.	Engineering	3-4, 6-7, 9+	1954-1955, 1957-1958, 1960+
SOUTHERN WATER RESOURCES AND POLLUTION CONTROL CONFERENCE. PROCEEDINGS.	Engineering	3+	1954+

SOVIET APPLIED MECHANICS. (English translation of "Prikladnaya Mekhanika")			
	Engineering	2+	1966+
SOVIET HYDROLOGY: SELECTED PAPERS.			
	Engineering	1+	1962+
SOVIET RESEARCH IN GEOPHYSICS.			
	Geography/Geology	1+	1960+
SPECIAL COMMITTEE OF THE INTERNATIONAL GEOPHYSICAL YEAR. ANNALS OF THE INTERNATIONAL GEOPHYSICAL YEAR.			
	Geography/Geology	1-20, 23-32, 35+	1957+
SPECIALIZED SCIENCE INFORMATION SERVICES IN THE UNITED STATES. A DIRECTORY OF SELECTED SPECIALIZED INFORMATION SERVICES IN THE PHYSICAL AND BIOLOGICAL SCIENCES.			
	Pharmacy		1961+
STANFORD ICHTHYOLOGICAL BULLETIN.			
	Memorial	1+	1938+
STAUB; REINHALTUNG DER LUFT. (Text in English)			
	Engineering	25+	1965+
STUDIES IN TROPICAL OCEANOGRAPHY.			
	Geography/Geology	1+	1963+
SULZER TECHNICAL REVIEW.			
	Engineering		1941+
SURFACE SCIENCE.			
	Physics/Math	1+	1964+
SWEDEN. METEOROLOGISKA OCH HYDROLOGISKA INSTITUDE. MEDDELANDEN. SERIES B.			
	Geography/Geology	1+	1945+
SYMPOSIUM EUROPEAN SUR LES INHIBITEURS DE CORROSION. COMPTES RENDUS.			
	Engineering	2+	1965+
SYMPOSIUM ON AFRICAN HYDROBIOLOGY AND INLAND FISHERIES.			
	Biology	1+	1952+
SYMPOSIUM ON ENVIRONMENTAL ENGINEERING, LONDON. SYMPOSIUM AND EXHIBITION PROCEEDINGS.			
	Engineering		1966+
SYMPOSIUM ON NAVAL HYDRODYNAMICS. PROCEEDINGS.			
	Engineering	1+	1956+
SYMPOSIUM ON NAVAL STRUCTURAL MECHANICS. PROCEEDINGS.			
	Engineering	1+	1958+

SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, UNIVERSITY OF MICHIGAN. PROCEEDINGS.

Geography/Geology	2+	1962+
Engineering	1+	1962+

SYMPOSIUM ON THE TREATMENT OF WASTE WATERS. PROCEEDINGS.

Engineering	1+	1957+

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TECHNICAL TRANSLATIONS.

Engineering	1+	1959+
Forest Products	1+	1959+

TECHNIQUE.

Engineering	1+	1947+

LA TECHNIQUE MODERNE.

Engineering	46+	1954+

TECHNIQUES ET SCIENCES MUNICIPALES.

Engineering	1-27, 52+	1906-32, 1957+

THE TECHNOLOGY REVIEW.

Engineering	1+	1899+

TELLUS. (Text in English)

Geography/Geology	1+	1949+

TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. DEPARTMENT OF OCEANOGRAPHY. CONTRIBUTIONS IN OCEANOLOGY AND METEOROLOGY.

Geography/Geology	1+	1950+

TEXAS. UNIVERSITY. BUREAU OF ECONOMIC GEOLOGY. GUIDEBOOK.

Geography/Geology	1-2, 4+	1958-60, 1963+

TEXAS. UNIVERSITY. INSTITUTE OF MARINE SCIENCE. PUBLICATIONS.

Biology	1+	1945/50+

TOHOKU DIAGAKU, SENDAI, JAPAN. RESEARCH INSTITUTE FOR STRENGTH AND FRACTURE OF MATERIALS. REPORTS.

Engineering	1+	1965+

TOHOKU DIAGAKU, SENDAI, JAPAN. SCIENCE REPORTS. SERIES 5. GEOPHYSICS.

Geography/Geology	16+	1965+

TOKYO CENTRAL METEOROLOGICAL OBSERVATORY OCEANOGRAPHICAL REPORTS.

Geography/Geology	1+	1949+

TOKYO DIAGAKU. JISHIN KENKYUJO. BULLETIN OF THE EARTHQUAKE RESEARCH INSTITUTE, TOKYO IMPERIAL UNIVERSITY.	Geography/Geology	1+	1926+
TOKYO KANKU KISHODAI. OCEANOGRAPHIC REPORTS.	Geography/Geology	1-3	1949-1954
TOKYO. TOKAI REGIONAL FISHERIES RESEARCH LABORATORY. BULLETIN.	Memorial	31+	1955+
TOKYO. UNIVERSITY. FACULTY OF SCIENCE. JOURNAL. SECTION II: GEOLOGY, MINERALOGY, GEOGRAPHY, GEOPHYSICS.	Memorial	1+	1912+
TOKYO. UNIVERSITY. INSTITUTE OF INDUSTRIAL SCIENCE. REPORT.	Engineering	1+	1950+
TOKYO. UNIVERSITY. JOURNAL OF THE FACULTY OF SCIENCE.	Physics/Math	7+	1956+
TOKYO. UNIVERSITY OF FISHERIES. JOURNAL.	Memorial	36+	1949+
TOOL AND MANUFACTURING ENGINEER.	Engineering	21+	1948+
TRANSPORTATION RESEARCH.	Engineering	1+	1967+
TRANSPORTATION SCIENCE.	Engineering	1+	1967+

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UNDERSEA TECHNOLOGY.	Engineering	5+	1964+
	Forest Products	7+	1966+
	Geography/Geology	8+	1967+
UNDERWATER ASSOCIATION OF MATTA.	Geography/Geology	1+	1965+
U.S. BUREAU OF MINES. BULLETIN.	Engineering	1+	1910+
U.S. FISH AND WILDLIFE SERVICE. BUREAU OF COMMERCIAL FISHERIES. REPORT.	Biology	various holdings	1871+
U.S. FISH AND WILDLIFE SERVICE. CIRCULAR.	Biology	various holdings	1941+

U.S. FISH AND WILDLIFE SERVICE. FISHERY BULLETIN.	Biology	50+	1941+
U.S. FISH AND WILDLIFE SERVICE. PROGRESSIVE FISH-CULTURIST.	Biology	2+	1934+
U.S. FISH AND WILDLIFE SERVICE. RESEARCH REPORT.	Biology	1+	1941+
U.S. FISH AND WILDLIFE SERVICE. SPECIAL SCIENTIFIC REPORT. FISHERIES.	Biology	1+	1940+
U.S. FISH AND WILDLIFE SERVICE. STATISTICAL DIGEST.	Biology	various holdings	1942+
U.S. GEOLOGICAL SURVEY. WATER RESOURCES REVIEW.	Geography/Geology		1965+
U.S. GOVERNMENT RESEARCH AND DEVELOPMENT REPORTS.	Forest Products	1+	1946+
U.S. NATIONAL SCIENCE FOUNDATION. OFFICE OF SPECIAL STUDIES. CURRENT PROJECTS ON ECONOMIC AND SOCIAL IMPLICATIONS OF SCIENCE AND TECHNOLOGY.	Pharmacy		1959+
U.S. NAVY SYMPOSIUM ON MILITARY OCEANOGRAPHY. PROCEEDINGS.	Engineering	1+	1964+
U.S. OFFICE OF NAVAL RESEARCH. NAVAL RESEARCH.	Engineering		1955+
U.S. OFFICE OF WATER RESOURCES RESEARCH. REPORT.	Engineering	1+	1964+
UPPER COLORADO RIVER COMMISSION. REPORT.	Geography/Geology	1+	1949+
UTAH GEOLOGICAL AND MINERALOGICAL SURVEY. QUARTERLY REVIEW.	Geography/Geology	1+	1964+

V

VIA PORT OF NEW YORK.	Business		Current year only
VIRGINIA MINERALS.	Geography/Geology	1+	1954+

W

WASSERWIRTSCHAFT.	Engineering	18-35, 39+	1923-40, 1944+
WASHINGTON SCIENCE TRENDS.	Engineering		1963+
WASTES ENGINEERING, SEWAGE AND INDUSTRIAL.	Engineering	1-34	1930-1963
WATER AND POLLUTION CONTROL.	Engineering	78+	1940+
WATER AND SEWAGE WORKS.	Engineering	1-2, 6+	1890-92, 1894+
WATER AND WASTES ENGINEERING.	Engineering	1+	1964+
WATER POLLUTION CONTROL. INSTITUTE OF SEWAGE PURIFICATION.	Engineering	various holdings before 1924 and	1924+
WATER POLLUTION CONTROL FEDERATION. JOURNAL.	Engineering	1+	1928+
WATER POLLUTION CONTROL FEDERATION MANUAL OF PRACTICE.	Engineering	1+	1944+
WATER POWER.	Engineering	5, 8, 10+	1953, 1956, 1958+
WATER QUALITY RESEARCH SYMPOSIUM, ALBANY. PROCEEDINGS.	Engineering	1+	1964+
WATER RESEARCH.	Engineering	1+	1967+
WATER RESOURCES RESEARCH.	Engineering	1+	1965+
	Geography/Geology	1+	1965+
WATER RESOURCES REVIEW.	Geography/Geology		1964+
WATERWAYS JOURNAL.	Historical	42+	1930+
WEAR-USURE-VERSCHLEISS. (Text in English)	Engineering	1+	1957+

WEATHER.	Geography/Geology	1+	1946+
WEATHERWISE.	Geography/Geology	1+	1948+
WERKSTATT UND BETRIEB. (Includes Supplement in English)	Engineering	1+	1868+
WESTERN MACHINERY AND STEEL WORLD.	Engineering	1+	1912+
WESTERN PETROLEUM REFINERS ASSOCIATION. POLLUTION CONTROL.	Engineering		1956-1957
WETTER UND LEBEN. (Summaries in English)	Geography/Geology	1+	1948+
WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS. WISCONSIN ACADEMY REVIEW.	Biology	1+	1954+
WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS. TRANSACTIONS.	Biology	2+	1847+
WISCONSIN CONSERVATION BULLETIN.	Geography/Geology	Current numbers only	
WISCONSIN ENGINEER.	Engineering	1+	1896+
WISCONSIN PROFESSIONAL ENGINEER.	Engineering	1+	1960+
WISCONSIN. UNIVERSITY. DEPARTMENT OF METEOROLOGY. REPORT TO THE UNIVERSITY OF WISCONSIN LAKE INVESTIGATIONS COMMITTEE.	Geography/Geology	4-5, 7+	1950+
WISCONSIN. UNIVERSITY. DEPARTMENT OF METEOROLOGY. TECHNICAL REPORT.	Geography/Geology	1+	1959+
WISCONSIN. UNIVERSITY. WATER RESOURCES CENTER. EUTROPHICATION PROGRAM. ABSTRACTS.	Geography/Geology	2+	1969+
WOODS HOLE, MASSACHUSETTS. OCEANOGRAPHIC INSTITUTION. COLLECTED REPRINTS.	Memorial		1944+
WORLD CONFERENCE ON EARTHQUAKE ENGINEERING. PROCEEDINGS.	Engineering	1+	1956+
	Geography/Geology	2+	1960+

WORLD CONFERENCE ON RADIO METEOROLOGY. RADIO METEOROLOGY. PROCEEDINGS.
Geography/Geology 1964+

WORLD CONGRESS OF UNDERWATER ACTIVITIES. A REPORT OF THE PROCEEDINGS.
Engineering 2+ 1963+

WORLD LIST OF FUTURE INTERNATIONAL MEETINGS.
Memorial 1960+

WORLD LIST OF SCIENTIFIC PERIODICALS.
Engineering 1964+
Medical 1964+

WORLD METEOROLOGICAL ORGANIZATION. BULLETIN.
Geography/Geology 1+ 1952+

WORLD METEOROLOGICAL ORGANIZATION. COMMISSION FOR AEROLOGY. ABRIDGED FINAL REPORT.
Geography/Geology 2+ 1957+

WORLD METEOROLOGICAL ORGANIZATION. COMMISSION FOR AERONAUTICAL METEOROLOGY. ABRIDGED FINAL REPORT.
Geography/Geology 2+ 1959+

WORLD METEOROLOGICAL ORGANIZATION. COMMISSION FOR AGRICULTURAL METEOROLOGY. ABRIDGED FINAL REPORT.
Geography/Geology 2+ 1958+

WORLD METEOROLOGICAL ORGANIZATION. COMMISSION FOR BIBLIOGRAPHY AND PUBLICATIONS. ABRIDGED FINAL REPORT.
Geography/Geology 2+ 1957+

WORLD METEOROLOGICAL ORGANIZATION. COMMISSION FOR CLIMATOLOGY. ABRIDGED FINAL REPORT.
Geography/Geology 2+ 1957+

WORLD METEOROLOGICAL ORGANIZATION. COMMISSION FOR INSTRUMENTS AND METHODS OF OBSERVATION. ABRIDGED FINAL REPORT.
Geography/Geology 2+ 1956+

WORLD METEOROLOGICAL ORGANIZATION. COMMISSION FOR MARITIME METEOROLOGY. ABRIDGED FINAL REPORT.
Geography/Geology 2+ 1956+

WORLD METEOROLOGICAL ORGANIZATION. COMMISSION FOR SYNOPTIC METEOROLOGY. ABRIDGED FINAL REPORT.
Geography/Geology 2+ 1958+

WORLD METEOROLOGICAL ORGANIZATION. INTERNATIONAL LIST OF SELECTED AND SUPPLEMENTARY SHIPS.
Geography/Geology 1960+

WORLD METEOROLOGICAL ORGANIZATION. TECHNICAL NOTE.	Geography/Geology	1-4, 8+	1954+
WORLD OIL.	Geography/Geology	126+	1947+
WORLD PETROLEUM.	Engineering	1-4, 23+	1930-33, 1952+
WORLD PETROLEUM CONGRESS. PROCEEDINGS.	Geography/Geology	3, 5+	1951, 1955+
WORLD PETROLEUM REPORT.	Engineering	3+	1957+
WORLD WEATHER RECORDS.	Geography/Geology		1931+

Y

YALE UNIVERSITY. PEABODY MUSEUM OF NATURAL HISTORY. BINGHAM OCEANOGRAPHIC FOUNDATION. BULLETIN.	Memorial	1+	1927+
YALE UNIVERSITY. SEARS FOUNDATION FOR MARINE RESEARCH. MEMOIRS.	Biology	1+	1948+

Z

ZEITSCHRIFT FUR FISCHEREI UND DEREN HILFSWISSEN-SCHAFTEN. (Summaries in English)	Biology	various holdings	1937-44, 1952+
ZEITSCHRIFT FUR GEOPHYSIK. (Text in English)	Geography/Geology	1-17, 20+	1924-42, 1954+
ZEITSCHRIFT FUR INSTRUMENTENKUNDE. (Text in English)	Engineering	1-64	1881-1944
	Physics/Math	22-31	1902-1911
ZEITSCHRIFT FUR METEOROLOGIE. (Text in English)	Geography/Geology	1+	1946+
ZEITSCHRIFT FUR WASSER UND ABWASSER FOISCHUNG.	Engineering		1968+
ZENTRALBLATT FUR MINERALOGIE. TEIL I: KRISTALLOGRAPHIE, MINERALOGIE. TEIL II: PETROGRAPHIE, TECHNISCHE MINEROLOGIE, GEOCHEMIE UND LAGERSTATTENKUNDE.	Geography/Geology		1950+

INDICES AND ABSTRACTS

B. INDICES AND ABSTRACTS

A.P.C.A. ABSTRACTS. (Air Pollution Control Association)	Engineering	11+	1965+
ABSTRACTS OF NORTH AMERICAN GEOLOGY. (U.S. Department of Interior Geological Survey)	Geography/Geology		1966+
ANNOTATED BIBLIOGRAPHY OF ECONOMIC GEOLOGY. (Geological Society of America)	Geography/Geology	1+	1929+
APPLIED SCIENCE AND TECHNOLOGY INDEX.	Engineering	1+	1913+
AUSTRALIAN SCIENCE INDEX.	Memorial	1+	1957+

B

BATTELLE TECHNICAL REVIEW.	Engineering	1+	1952+
BIBLIOGRAPHIA GEODAETICA.	Geography/Geology	4+	1966+
BIBLIOGRAPHIA OCEANOGRAPHICA.	Geography/Geology	1-23, 28+	1928-1950, 1955+
BIBLIOGRAPHIC INDEX.	Memorial	1+	1937+
BIBLIOGRAPHICAL BULLETIN FOR WELDING AND ALLIED PROCESSES.	Engineering	18+	1966+
BIBLIOGRAPHIE DER UBERSETZUNGEN DEUTSCHSPRACHIGER WERKE.	Memorial	1+	1954+
BIOLOGICAL ABSTRACTS.	Biology	1+	1926+
BIOLOGICAL AND AGRICULTURAL INDEX.	Agriculture	1+	1916+

Note: The numbers and dates shown on each periodical entry give the volume number and year of the earliest publication found in the library; e.g., BIBLIOGRAPHIC INDEX 1+ 1937+ indicates that the library has all issues of the periodical, beginning with volume 1 which is dated 1937.

BIORESEARCH INDEX. (Life Sciences covered)		
Medical	1+	1926+
BRITISH HYDROMECHANICS RESEARCH ASSOCIATION. BULLETIN.		
Engineering	1+	1948+
BRITISH TECHNOLOGY INDEX.		
Engineering	1+	1962+
BUSINESS PERIODICALS INDEX.		
Memorial		1958+

C

CHEMICAL ABSTRACTS.		
Engineering	1+	1907+
Chemistry	1+	1907+
Agriculture	1+	1907+
Medical	9+	1915+
Biology	31+	1937+
CHEMICAL TITLES.		
Pharmacy		current year only
Forest Products		current year only
CHEMISCHES ZENTRALBLATT.		
Chemistry	1+	1830+
CIVIL ENGINEERING PERIODICALS INDEX.		
Engineering	1+	1964+
COPPER ABSTRACTS.		
Engineering	1+	1959+
CORROSION ABSTRACTS.		
Engineering	7+	1968+
CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES.		
Biology	1+	1958+
CURRENT CONTENTS OF SPACE, ELECTRONIC AND PHYSICAL SCIENCES.		
Geography/Geology	4+	1964+
CURRENT PAPERS IN PHYSICS.		
Physics/Math		1966+

D

DEEP-SEA RESEARCH AND OCEANOGRAPHIC ABSTRACTS.	Geography/Geology	14+	1967+
DEUTSCHE HYDROGRAPHISCHE ZEITSCHRIFT.	Geography/Geology	1+	1948+
DISSERTATION ABSTRACTS.	Agriculture	16+	1956+

E

EAST EUROPEAN SCIENTIFIC ABSTRACTS. CHEMISTRY.	Chemistry	1+	1964+
ELECTROANALYTICAL ABSTRACTS.	Chemistry	1+	1963+
ENGINEERING INDEX.	Engineering	1+	1884+
ENVIRONMENTAL EFFECTS ON MATERIALS AND EQUIPMENT. ABSTRACTS.	Forest Products	1-4	1961-1964

G

GAS ABSTRACTS.	Engineering	22+	1966+
GEOPHYSICAL ABSTRACTS.	Geography/Geology	1+	1929+
GOVERNMENT-WIDE INDEX TO FEDERAL RESEARCH AND DEVELOPMENT REPORTS.	Engineering	1+	1965+

I

I.M.M. ABSTRACTS (Institution of Mining and Metallurgy)	Engineering	1+	1950+
INDEX CHEMICUS.	Chemistry	86+	1964+

INDIAN SCIENCE ABSTRACTS.		
Memorial	1+	1965+
INDONESIAN ABSTRACTS.		
Memorial	4+	1962+
INSTITUTE OF PAPER CHEMISTRY. ABSTRACT BULLETIN.		
Forest Products	1+	1930+
INSTRUMENT ABSTRACTS.		
Engineering	21+	1966+
INTERNATIONAL ABSTRACTS OF BIOLOGICAL SCIENCES.		
Medical	1+	1954+
Agriculture	5+	1957+

J

JOURNAL OF APPLIED CHEMISTRY.		
Engineering	1+	1951+

L

LEAD ABSTRACTS.		
Engineering	2+	1962+
LECTRODEX.		
Engineering		1946-1966

M

METALS ABSTRACTS		
Engineering		1968+
METALS ABSTRACTS INDEX.		
Engineering		1968+
METEOROLOGICAL AND GEOASTROPHYSICAL ABSTRACTS.		
Geography/Geology	1+	1950+
MINERALOGICAL ABSTRACTS.		
Geography/Geology	1+	1945+

N

NICKEL BULLETIN.		
Engineering	28+	1955+

O

OCEANIC ABSTRACTS.		
Geography/Geology	1+	1966+
OCEANIC INDEX.		
Geography/Geology	1+	1964+
OCEANOGRAPHIC PAPERS IN JAPAN.		
Geography/Geology	2+	1939/57+

P

PETROLEUM LITERATURE INDEX.		
Geography/Geology	4+	1959+
PHYSIKALISCHE BERICHTE.		
Physics/Math	1+	1920+
POLISH SCIENTIFIC PERIODICALS. CURRENT CONTENTS.		
Engineering		1963+

R

REVIEW OF METAL LITERATURE.		
Engineering	1+	1944+

S

SCIENCE ABSTRACTS. SECTION A: PHYSICAL ABSTRACTS.		
Engineering	1+	1898+
Physics/Math	1+	1898+
SCIENCE ABSTRACTS. SECTION B: ELECTRICAL AND ELECTRONICS ABSTRACTS.		
Engineering	1+	1903+
SCIENCE CITATION INDEX.		
Medical	1+	1963+

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS. (National Aeronautics and Space Administration)	Engineering		1963+
SERVOMECHANISMS.	Engineering	1+	1965+
SPORT FISHERY ABSTRACTS. (U.S. Fish and Wildlife Service)	Biology	1+	1955+

W

WATER POLLUTION ABSTRACTS. (Water Pollution Research Board, Great Britain)	Engineering	3+	1930+
WATER RESOURCES ABSTRACTS.	Geography/Geology	1+	1968+
WORLD FISHERIES ABSTRACTS.	Agriculture	1+	1950+
WORLD INDEX FOR SCIENTIFIC TRANSLATIONS.	Engineering	1+	1967+

Z

ZINC ABSTRACTS.	Engineering	20+	1962+

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C. BIBLIOGRAPHY OF BIBLIOGRAPHIES

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Agriculture

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AGRICULTURAL & LIFE SCIENCES
(Steenbock Memorial Library)

550 Babcock Drive
Madison, Wisconsin 53706
(608) 262-1371

BIOLOGY

358 Birge Hall
Madison, Wisconsin 53706
(608) 262-2740

BUSINESS

4 Commerce Building
Madison, Wisconsin 53706
(608) 262-5935

CHEMISTRY

2361 Chemistry Building
Madison, Wisconsin 53706
(608) 262-2942

COLLEGE

(These volumes will be in
Memorial until 1971)

COMPUTING CENTER

1210 W. Dayton Street
Madison, Wisconsin 53706
(608) 262-1[illegible]66

ENGINEERING

375 Mechanical Engineering
Madison, Wisconsin 53706
(608) 262-3493

FOREST PRODUCTS

N. Walnut Street
Madison, Wisconsin
(608) 257-2211, Ext. 289

GEOGRAPHY/GEOLOGY

250 Science Hall
Madison, Wisconsin 53706
(608) 262-1706

HISTORICAL

Historical Society Building
Madison, Wisconsin
(608) 262-3421

INFORMATION SERVICES DIVISION

1324 W. Dayton Street
Madison, Wisconsin 53706
(608) 262-7980

MEDICAL

1305 Linden Drive
Madison, Wisconsin 53706
(608) 262-6594

MEMORIAL

728 State Street
Madison, Wisconsin 53706
(608) 262-3193

PHARMACY

359 Pharmacy Building
Madison, Wisconsin 53706
(608) 262-2894

PHYSICS/MATH

B224 Van Vleck Hall
Madison, Wisconsin 53706
(608) 262-3596

HOW TO USE THESE LIBRARY RESOURCES

HOW TO USE THESE LIBRARY RESOURCES

General Information

The Library Resources part of this Directory, is made up of four standard library assets: periodicals, indices and abstracts, bibliography of bibliographies, and monographs. Each of these four sections is grouped separately, and each is arranged in alphabetical order, by either author, title, or sponsoring organization. Individual entries are listed by author (or editor) wherever possible in the monograph and bibliography of bibliographies categories, and by title in the case of periodicals and indices and abstracts. In cases where no author listing exists, entries were generally listed by the sponsoring organization, though occasionally title entries were used. Each monograph and bibliography of bibliographies entry contains the basic bibliographical information (author, title, agency, publisher, date of publication), and the library or libraries where it is to be found. Periodicals, and indices and abstracts listings contain the title, an indication of whether foreign journals have translations or summaries in English (this listing is incomplete however, and if no indication is given, the journal should be checked as to whether or not it is in English), the library or libraries in which it may be found, and the volumes and/or the years which each library possesses.

Index to Monographs

The Index to the monographs is an additional section designed to assist the user to approach the monograph listing by means of subject. Each monograph entry has an entry number, which can be found under the appropriate subject heading in the index. Since the index is only intended as a tool to get into the general subject area of the literature, i.e., to lead to a few books which can give the user many more author-title references, it does not list every monograph under every possible subject heading which might apply to it. As a general rule, each monograph entry is indexed only under its most specific subject area, though in cases where this area was not obvious, the entry may be found under more than one subject heading.

To Obtain Materials

All of the library resource material listed in this Directory may be obtained directly from the respective libraries at which they are located, with the exception of those items listed at Information Services Division (ISD). The addresses and telephone numbers of these libraries are to be found in the preceding section entitled "List of Libraries Indexed." Inquiries regarding ISD materials should be directed to the ISD Sea Grant Office, but since these materials are not located there, special individual arrangements will have to be made to provide the user with access to them.

Anyone requiring assistance to employ the information resources listed in this Directory, or anyone needing further assistance to utilize the University of Wisconsin library system, should also contact the ISD Sea Grant Office. The address and telephone number of this office follow:

INFORMATION SERVICES
SEA GRANT PROGRAM
1324 WEST DAYTON STREET
MADISON, WISCONSIN 53706

(608) 262-7980

It should be noted, that the procedure for obtaining films and filmstrips, is a separate matter, the instructions for such being located on the first page of the "Films and Filmstrips" section.

II. FILMS AND FILMSTRIPS

BUREAU OF AUDIO-VISUAL INSTRUCTION

FILMS AND FILMSTRIPS

A. Bureau of Audio-Visual Instruction

Bureau of Audio-Visual Instruction
1327 University Avenue
P. O. Box 2093
Madison, Wisconsin 53701

HOW TO ORDER

Whenever possible use BAVI order blanks which will be provided on request. Order by number and title. If possible, indicate alternate dates on which the films can be used. Telephone orders should be held to emergency situations only.

RENTAL TERMS

Individuals and groups in the state of Wisconsin may rent films for a 24-hour period at the indicated rental charges and by the week at twice the indicated rentals. Out-of-state rentals are at a one-day-use basis at indicated rentals plus a 50 percent overcharge. For weekly rental, the rate is two indicated rentals plus the overcharge.

CONDITION OF USE

Permission for any form of television use or videotape recording of a film listed by the BAVI must be secured by direct correspondence with the copyright owner. The videotaping of any film produced by the University of Wisconsin, in part or in whole, is specifically forbidden.

All films listed are available for showing by individuals or groups but cannot be shown where admissions are charged.

The following films are available from the Bureau of Audio-Visual Instruction:

6346 BEACH--A RIVER OF SAND (Color) (26 minutes) $8.25
Analyzes the currents produced by waves (documented by underwater photography) and calculates the accumulation and depletion of sand (produced by jetties) to discover that the most pronounced movement of sand on a beach is usually along the shore. (EBF)

4388 BEACH AND SEA ANIMALS (2nd edition) (Color) (11 min.) $4.00
Examines characteristics, habits, and importance of invertebrate animals dwelling on or near the beach. Reveals by underwater close-up photography the starfish, sea cucumber, shrimp, scallop, nudibranch, porcupine fish, anemone, sponge and seahorse. Portrays interrelationships and methods of self-preservation, and illustrates balance in nature. (EBF)

0235 BENEATH THE SEA (11 minutes) $2.00
Variety of undersea life: battle between an octopus and a shark; rhythmic movement of the tentacles of a jelly fish and the flower-like anemone; barnacles, sea urchins, sea cucumber seeking food; hermit crab inspecting a new shell abode. Maturation of a fish egg and the circulation of blood in a fish embryo. (TFC)

0247 BIOGRAPHY OF A FISH (7 minutes) $2.00
Pictures the processes of nest-building, mating, egg laying, and development of the stickleback. Shows the male in the acts of building the nest, attracting a female to lay eggs, and guarding the eggs against a snail, a perch, a salamander, and another stickleback. Shows the rapid development of the young and the killing of the father by a pickerel. (Sterling)

5884 BIOLOGY: PHYSICAL ENVIRONMENT (Color) (11 minutes) $4.00
Shows some of the ways in which organisms are adapted to the conditions of their physical environment ranging from the Arctic to the tropical rain forest and how these conditions may be varied. Illustrates how environments of the past are being investigated through laboratory analysis of marine fossils. (EBF)

5376 SEA (Color) (28 minutes) $7.50
Examines the major varities of plankton, their characteristics, behavior, and role in marine food chains. Shows the equipment and methods used to collect and analyze plankton, and learn about the distribution of species throughout the world.

5386 SEA (Color) (28 minutes) $9.00
Illustrates the interrelationships between living things in the sea, their dependence on each other, and on the varying conditions of the marine environment. Shows how marine biologists and oceanographers study the sea and its plant and animal populations.

5256 SIMPLE PLANTS--THE ALGAE (Color) (17 minutes) $7.25
Shows the diversity of these simple plants that range in size from single cells to gigantic kelps. Stresses the importance of algae and shows some of the practical aspects of its use for food and cosmetics. Suggest possible use of algae in space exploration.

5259 ECHINODERMS--SEA STARS AND THEIR RELATIVES $7.25
(Color) (10 minutes)
Defines, and with live, close-up photography, illustrates the stages of reproduction and development and illustrates that the larvae

provide a clue to their relationship to other groups and to the understanding of the place of echinoderms in evolution.

5260 FIRST MANY-CELLED ANIMALS--SPONGES $7.25
(Color) (16 minutes)

Illustrates the differences between the single-celled organisms and the colony of several cell-types that make up sponges. Shows the advantages of multicellularity in an animal and points out the interesting aspect of commercial use of sponges.

5493 FISH EMBYRO: FROM FERTILIZATION TO HATCHING $5.75
(Color) (16 minutes)

Explains and illustrates how fish eggs are fertilized in a stream. Uses time-lapse and photomicrography to condense the 4-day history of a zebra fish embryo into a few minutes' time, probably the most complete acoount of fish embryology so recorded on film.

5262 STINGING-CELLED ANIMALS--COELENTERATES $7.25
(Color) (16 minutes)

Distinguishes the phylum coelenterate and its three classes by showing the characteristics of behavior and body structure. Demonstrates that coelenterates eat in response to a chemical, glutathione, which is found in all living organisms. Gives detailed description and experimental analysis of hydra.

5543 WHAT IS A FISH? (Color) (22 minutes) $8.75

Illustrates the major types of fishes. Shows the anatomy of a typical fish and demonstrates characteristic behavior patterns of various kinds of fishes. Reveals, through underwater photography, behavior patterns such as commensalism, spawning, predation, and territoriality.

4661 BOATS: BUOYANCY, STABILITY, PROPULSION (13 minutes) $3.00

Presents carefully planned demonstrations clearly illustrating Archimedes principle in explaining why certain objects float in water while others do not. Examines these factors which give boats and ships stability, making them useful to man. Shows the various methods of propulsion and illustrates how a submarine submerges and rises. (Cornet)

0326 CALIFORNIA AND ITS NATURAL RESOURCES $2.00
(Color) (30 minutes)

Discusses two of California's resources: water and petroleum, and the effect on the way of life, agriculture, and industry. Traces the history of California from the days of the mission priests to the present-day irrigation projects. Describes the evolution of the petroleum industry. Depicts the variety and abundance of the state's agriculture, stresses the importance of mining, and shows California's scenic attractions. (USBM) 1948

0433 CITY WATER SUPPLY (10 minutes) $2.00

Relation between rainfall and vegetation; sources of city water supply (wells, rivers, lakes, watersheds); water tunnels and aqueducts;

water-borne diseases; methods of water distribution, with particular reference to New York City. The dependence of life upon an adequate water supply and necessity of safeguarding its sources and distribution. (EBF)

0438 CLOUDS (11 minutes) $2.00

Types of clouds and how they are formed; their significance in forecasting weather conditions. (USDA)

0439 CLOUDS AND WEATHER (10 minutes) $2.00

An explanation of changes in weather and clouds. Well-suited for classes in navigation connected with marine or aviation study. (USDA)

5367 CONSERVING OUR WATER RESOURCES TODAY $5.00
(Color) (11 minutes)

Shows why our need for water has increased so tremendously and why the water shortage has been so great in past years. Demonstrates methods whereby we can preserve, improve and increase our water resources. (Cornet)

1536 CRAYFISH ANATOMY (Color) (11 minutes) $3.50

Shows the external anatomy of a living crayfish and by using a freshly anesthetized specimen points out its internal anatomy by systems. Excellent use of close-up photography presents most effectively dissection techniques as well as structure and function of various body organs. (Indiana Univ.)

3616 CRUSTACEANS (Color) (13 minutes) $5.00

Observes the appearance, habitat, and behavior of the most important types of crustaceans. Describes their common characteristics and shows the distinguishing features of the five types of crustaceans: the Branchiopoda, the Ostracoda, the Copepoda, the Cirripedia, and the Malocostraca. Points out the importance of crustacea to the balance of nature and their commercial importance. (EBF)

8501 DEVELOPMENT OF THE MARINE WORM--ANNELIDEN POMATOCERUS TRIQUETER
(Silent) (8 minutes) $2.00

Shows fertilization and several succeeding stages of development. German subtitles. (Instit. Fur Wissenschaftlichen Film)

8841 DEVELOPMENT OF THE SEA URCHIN EGG (Silent) (12 min.) $2.00

Shows, by time-lapse and microphotography, the fertilization, raising of membrance, cleavage, bastula, and primary mesenchyme of the sea urchin egg. Shows gastrula, formation of gut, and pluteus larva. German subtitles. (Instit. Fur Film and Bild)

8566 DEVELOPMENT OF THE ZEBRA FISH EGG (Silent) (15 min.) $2.00

Shows cell division and early development of the zebra fish egg. (Wistar Instit.)

3400 ELECTRIC EEL (Color) (12 minutes) $3.50

Introduces the electric eel as one of a group of fishes of the catfish family and details its electrical activity. Explains the two types of electrical discharge, how they are produced and what their functions are, and demonstrates the strength of the discharge. Illustrates food habits and internal structure of the eel by means of charts and models. (Moody)

1510 FIELD TRIP TO A FISH HATCHERY (10 minutes) $2.00
Presents an interesting picture of a fish hatchery and its work. Shows how eggs and sperm cells are artificially induced, several stages of egg development, the small fry and fingerlings. Explains the methods of care, feeding and planting of fish, also how fish are adapted to life in the water. (Cornet)

3200 FISH ARE INTERESTING (Color) (9 minutes) $4.00
Points out the fact that fish are the world's most numerous backboned animal, that they are found in almost all bodies of water, that there are many kinds, that all have backbones, and that all breathe through gills. Compares the sharklike group of fish with the bony fish. Pictures many kinds of fish. (Film Assoc.)

3210 FISH--CATCHING, FILLETING, AND PACKAGING (15 minutes) $2.00
Visualizes the process of commercial ocean fishing and the handling of fish up to purchase by the consumer. Includes use of a cod net, icing for holding on shipboard and in the processing plant, filleting, inspecting, packaging, and freezing. (U.S. Fish and Wildlife Service)

5720 FISH, MOON AND TIDES--THE GRUNION STORY $5.00
(Color) (15 minutes)
Shows the unusual spawning habits of the Grunion, the only fish to spawn on land. Explains how the spawning is related to the ocean tides and the moon. Serves as an introduction to the study of reproduction of life. (Academy)

5622 FISHING FIVE GREAT LAKES (Color) (27 minutes) $2.00
Depicts the Great Lakes in transition with special emphasis on the methods and problems of the commercial fishermen and the measures being taken to help solve their problems. Considers these lakes as places for both play and work. (USDI)

0869 GREAT LAKES (Color) (22 minutes) $5.00
0870 GREAT LAKES (B and W) (22 minutes) $3.00
The importance of the Great Lakes to our social and industrial development in the Middle West and East beautifully told and illustrated in this film. The growth of large cities along the shores, the service which its transportation line offers the produce of the West and North as it concerns Lake Superior and eastward to the St. Lawrence River. Beautiful photographs of the various locks. An excellent social studies film. (National Film Board of Canada)

0871 GREAT LAKES--HIGHWAY OF COMMERCE $6.75
(Color) (22 minutes)
The Great Lakes shown in their vital role as transportation

avenues for the nation's principle pulp lumber, grain, coal, limestone, and iron ore deposits. Through animation on colored maps the deposits and routes or transport are clearly indicated. The loading and unloading of lake vessels with each type of cargo by mechanical means is shown in close and colorful detail. Pictures the operation of the Sault Ste. Marie locks--the busiest in the world. (EBF)

0873 GREAT LAKES--THEIR LINK WITH OCEAN SHIPPING $3.50
(Color) (11 minutes)

Stresses the importance of canals to transportation on the lakes; the difference in levels of the five lakes and their outlets. Detailed study of the Welland Canal and of the great need for a seaway around the St. Lawrence rapids. (EBF)

5146 HORIZONS OF SCIENCE: WORLDS OF DR. VISHNIAC $3.50
(Color) (20 minutes)

Shows many forms of protozoa, such as blepharisma, paramecia, pleodorina, amoeba, and others carrying out various life functions. Reveals careful, tedious techniques of world famous entomologist and microbiologist, Dr. Roman Vishniac, as he studies and photographs these small organisms. Demonstrates vividly the complex world of microscopic, one-celled animals that dwell in pond water. (Educ. Testing)

5149 HORIZONS OF SCIENCE: MATHEMATICIAN AND THE RIVER $3.50
(Color) (19 minutes)

Reveals two approaches to prediction of behavior of the Mississippi-Ohio-Missouri River system. Shows scale model of river constructed by army engineers at Jackson, Mississippi out of concrete in which one human step equals one mile of actual river length. Explains the newer approach, using electronic computer developed by Prof. Eugene Isaacson of NYU. Shows hoe physics equations of conservation of mass and conservation of momentum are utilized by computer to predict stream output and thus help prevent disastrous floods. (Educ. Testing)

5151 HORIZONS OF SCIENCE: PROJECT "MOHOLE" $3.50
(Color) (19 minutes)

Explains in easily comprehended terms the existence of a "Moho" or border zone between the rocks of the earth's crust and the unknown mantle of the earth which lies below. Shows the operations of the research vessel, Vema, which made preliminary studies of the ocean's floor near Puerto Rico in order to select a site suitable for drilling into the "Moho". Lists the three methods used in probing the ocean bottom and speculates on the implications of drilling into the earth's mantle. (Educ. Testing)

0890 HOUSE OF MAN: OUR CHANGING ENVIRONMENT $6.00
(Color) (17 minutes)

Discusses man's complete dependence on conditions of this planet and upon other forms of life it supports. Shows waste of resources in cities, forests, and farms and pollution of water and air. Compares progress through wasteful techniques and intelligent conservation techniques. Points up man's misunderstanding of his role in the world and his need to plan wisely for the future. (EBF)

1028 HYDRA (10 minutes) $2.00
Illustrates life processes of the hydra including feeding, regeneration of body parts, and both asexual and sexual reproduction. Gives microscopic details of ectoderm and cellular structure. Shows actual feeding and digestion, budding and sexual reproductive processes. (United World)

6204 INFLUX OF TROPICAL SEA AIR WITH A SUMMER-LIKE SOUTH-WEST WEATHER SITUATION (BAVARIAN ALPINE FORELAND) $3.00
(Color) (10 minutes)
Shows how the influx of maritime moist tropical air leads in the morning to the formation of cumulous castellatus clouds indicating severe thunderstorm development for the afternoon. During the night, cooling in the upper layers without warming from below associated with continuous influx of moist air favor the development of new thunderstorms. Narration in German (Instit. Fur Wissenschaftlichen Film)

1107 IT'S THE MAIN SARDINE (Color) (19 minutes) $2.00
Pictures three methods of fishing for sardines along the Maine coast and the processing of sardines at commercial canneries. Shows the weir method of capturing sardines in shallows along the beach, the stop seine method for enclosed bays, and the purse seine method used in the open sea. Describes in detail the processes of bringing, sorting, packing, pressure cooking, inspection, and quality control. (USDI)

1247 LIFE ALONG THE WATERWAYS (Color) (11 minutes) $3.50
Traces life along a water course from its source to the sea. Shows plant and animal life typical to the changing streamside environment. Illustrates plant life including skunk cabbage, jack-in-the-pulpit, marsh marigold, jewelweed, moccasin flower, etc. Shows trout, birds, butterflies, toads, water snakes, frogs, sandpipers, raccoons, turtles, foxes, muskrats, geese, shore birds, etc. (EBF)

5981 LIFE BETWEEN THE TIDES (Color) (11 minutes) $4.00
Presents unusual life-action photography of marine life along the Pacific Coast, illustrating representative types of plants and animals that have adapted to both water and air: seaweeds and barnacles, living permanently attached to rocks; clams and limpets, living on the sandy shore; and animals such as sea stars, anemones, and hydroids which live in tide pools along the rocky coast. (EBF)

1251 LIFE CYCLE OF THE TROUT (10 minutes) $2.00
Exceptional microphotography of the fertilization and development of trout eggs. Shows deposit of sperm cells, the germinal disc, heart action, circulation, and brain in the embryo. Shows a fry emerge from the egg and subsequent development into a fully formed trout. (United World)

1252 LIFE IN A DROP OF WATER (10 minutes) $2.00
Excellent microphotography showing various single celled forms

of animal life in relation to their environment. Sequences developing basic necessities of animal life, simplest forms of plant and animal life, and colonial forms of simple animal life. Excellent photography of vorticelli. (Cornet)

5985 LIFE STORY OF THE SEA STAR (Color) (11 minutes) $4.00
Examines the structural characteristics which enables them to survive their coastline environment. Shows the action of their tube feet, the delicate maneuvers by which they move, how they capture and digest their prey and the highlights of embryonic development from the earliest larval stage to adulthood. (EBF)

3420 LOCKS OF SAULT ST. MARIE (Color) (32 minutes) $7.25
Documents the story of the Soo locks showing their historic development, operation, economic importance and the ways in which they are protected. Shows operation of the locks by means of actual photography and a miniature working model. Describes the locks as the key to the greatest inland waterway in the world. (Univ. of Michigan)

2264 MAGNESIUM--TREASURE FROM THE SEA (Color) (10 min.) $2.00
Uses the cartoon technique to show the amount of magnesium available in seawater, why magnesium is such a valuable metal, the degree to which the use of magnesium lightens machines, what effects lightening machines can have, and suggests additional use for magnesium. (Dow Chemical)

1358 MARINE ANIMALS AND THEIR FOODS (9 minutes) $2.00
Shows the various ways in which small sea animals get food including plankton, debris, detrius, seaweed, and other small animals. Shows microscopic views of plankton. Pictures in close detail such animals as barnacles, sea urchins, sea anemones, hermit crabs, abalones, and an octopus in the process of getting food. (Cornet)

0445 MARSH WATERS--WASTE OR WEALTH (Color) (15 minutes) $5.50
Discusses various phases of the problems of marshes including the values to be gained both by draining and by maintaining them as marshes. Allows one to see the surface water problem through the eyes of flood relief workers, geologists, fire wardens, trappers, water fowl hunters, land owners and nature hobbyists. (University of Minnesota)

1041 MICROSCOPIC LIFE: WORLD OF THE INVISIBLE (14 minutes) $3.00
Describes forms of microscopic life commonly found in a jar of ordinary pond water. Identifies each plant and animal by name and gives its characteristics. Includes such one and many celled animals as Euglena and Velvox, hydra, mosquitoes, Rotifers, Cyclops, Daphnia, and Bryoza. (EBF)

1415 MISSISSIPPI RIVER (LOWER RIVER) (Color) (14 minutes) $4.00
1416 MISSISSIPPI RIVER (LOWER RIVER) (B and W) (14 min.) $3.00
From mouth of Ohio River to Gulf of Mexico, features industries, vital river transportation of goods and farm products, dramatic scenes

of disastrous flood, flood control, levee construction, sandbagging, dredging, and the river parts of Memphis and New Orleans. (Academy)

1417 MISSISSIPPI RIVER (UPPER RIVER) (Color) (14 minutes) $4.00
1418 MISSISSIPPI RIVER (UPPER RIVER) (B and W) (14 min.) $3.00

The story of America's greatest river from its source to its central section near St. Louis showing, by actual scenes and animated maps, its use by industry and agriculture for power generation and transportation, its control by dams and locks, its drainage area and principal tributaries, and the cities of Minneapolis and St. Louis. (Academy)

1462 MISTERIES OF WATER (11 minutes) $2.00

Water as a chemical agent, a good and a source of energy. The most common of nature's elements as man's friend, worker, and builder, but also as a destroyer. (KB)

0594 NEWFOUNDLAND SEA BIRDS (Color) (14 minutes) $2.00

Shows adaptability of Green Island as a favorite homing place of sea birds. Illustrates many species of sea birds: gulls, kittiwakes, murres, puffins, terns, with close-ups of some captured for banding. Includes slow-motion photography as well as amusing action scenes.

3900 OCEAN TIDE--BAY OF FUNDY (14 minutes) $3.00

Visualizes and explains the ebb and flow of ocean tides. Makes use of the pronounced difference between high and low tide in the funnel-shaped Bay of Fundy. Uses animation and time-lapse photography to explain the cause of tides and to show them. (EBF)

3202 OCEAN TO OCEAN (8 minutes) $2.00

Shows in detail the operation of the Panama Locks. Ises animation to show the need for the canal and the locks. Touches on the early efforts of the French to build the canal. (McGray-Hill-RKO)

6318 OCEANOGRAPHY AT WORK (Color) (25 minutes) $9.00

Documents the work of geologists as they use seismic survey techniques coordinated with land-base radar beacons to map the ocean floor in a quest for diamonds. Shows divers using underwater television to probe for rock samples to be followed by a ship with drilling equipment to bring diamonds from under the sea off the coast of Africa. (Cornet)

1595 OUR EARTH (11 minutes) $2.00

"Provides an introduction to the study of world geography. This broad general objective is accomplished by observing the effects of oceans and ocean currents, types of coast line and harbors, rivers, lakes, valleys, plains, plateaus, and mountains. In every case, climatic and other influences of these physical phenomena are depicted in relation to the human element." (EBF)

5417 CHALLENGE OF THE OCEANS (Color) (27 minutes) $5.75

Explains the scope and objectives of present-day oceanographic exploration. Demonstrates the techniques and instruments of the modern oceanographer; explores the earth's heat and water budget, the circulation of the earth's water and the movement of the ocean currents, marine biology, the sedimentation, geology and formation of the ocean floor. (McGraw-Hill)

1723 POND LIFE (10 minutes) $2.25

Shows a great variety of plants and animals living together in a typical pond. Shows close-up views of water lilies, algae; the whirligig beetle, water spider, crayfish, water tiger, and various fish. Explains how all these species live together, eat one another, and reproduce to maintain a natural balance in the pond. (EBF)

4004 PROTOZOA (Color) (11 minutes) $4.00

Portrays the variety of life functions of one-celled animals. Starts by showing that a drop of water may be teaming with living things. Describes the basic structure of the cell. Identifies ectoplasm, endoplasm, and the nucleus. Explains how protozoa are classified. Shows many species of protozoa, how they eat, how they reproduce, and how they live in relation to other living things. (EBF)

1460 PROTOZOA: STRUCTURES AND LIFE FUNCTIONS $6.00
(Color) (16 minutes)

Examines living specimens of the four classes of protozoa: rhizopods, flagellates, ciliates, and sporozoans. Includes physical characteristics of each class, adaptation to moist environment, life functions of movement, food-getting, growth, reproduction, and response to stimuli. Stresses importance of protozoa to human existence. (Cornet)

5387 RIPPLE TANK WAVE PHENOMENA - PART I: REFLECTION AND REFRACTION (17 minutes) $3.00

Demonstrates plane and circular wave patterns created in a ripple tank and used in a number of wave phenomenon experiments such as reflections from plane and curved survaces, real and virtual image formations from mirrors and a double convex lens, dispersion and its wavelength dependence, and refraction including the critical angle-total reflection effect. Especially useful in implementing optical and acoustical wave studies and as a supplementary aid for classroom ripple tank studies. (Educational Services)

5966 RIPPLE TANK WAVE PHENOMENA - PART II: INTERFERRENCE AND DIFFRACTION (19 minutes)

Shows how the superposition of single pulses from two sources leads up to the interference pattern formed by two periodic waves. Demonstrates the effect on an interference pattern produced by two point sources of changing the wave length, separation of the sources, or the phase of the waves. Presents diffraction as a form of interference. Illustrates the effect of the pattern of varying wave length, obstacle size and slit width. (Education Services)

1855 RIVER (33 minutes) $2.75

"Notable film dramatization of the story of the Mississippi from pioneer days of river commerce to recent floods and erosion disasters. Conservation work. (USDA)

2693 RIVER SYSTEMS AND MAN (16 minutes) $2.00

Relates rivers and waterways to the entire conservation program. Provides a graphic picture of many geographic features associated with the development of rivers and their utility to man. (Sterling)

4721 RIVERS (Color) (11 minutes) $3.50

Shows how rivers begin, make a channel, slow up toward the mouths, and build up silt. Points out that pleasure, food, travel, minerals and power can be provided by rivers. Stresses how cities and industries are built along rivers. Explains the water cycle. (Gateway)

1858 RIVERS OF THE PACIFIC SLOPE (Color) (10 minutes) $3.50

The story of these three river systems: the Columbia, the Sacramento and the San Joaquin, and the Colorado. The uses to which man has put these three Pacific Slope rivers, adapting them to the special needs of the territory. Purpose of these rivers to function as avenues of commerce, logging and fish spawning, and the dams built across them to serve navigation, and to furnish electric power and water to the surrounding countryside. (Cornet)

5141 SALMON: CATCH TO CAN (Color) (15 minutes) $2.00

Describes the return of salmon to fresh water streams for spawning. Shows the nest making, laying and fertilization of eggs, and the hatching of the fingerlings. Stresses the role of conservation departments in distributing fingerlings and providing "steps" for the salmon in getting upstream. Depicts techniques of fishing salmon and of the process of canning this product. Suggest ways of using salmon in different dishes. (USDI)

2590 SALMON: LIFE CYCLE OF THE SOCKEYE (Color) (11 min.) $3.50

The life cycle of the salmon from hatching to spawning. Shows migration of adult salmon up Fraser River (Canada), struggle up the falls and rapids, change of color of adults as spawning grounds are reached. Portrays spawning process and fertilization through animation. (Hoefler)

2586 SCIENCE OF THE SEA (Color) (19 minutes) $7.25

Explores the relationship of the ocean to man's life, his food, and his weather, and illustrates the science of oceanography and its broad area of interest. Stresses the problems of science and gives a meaningful introduction to this phase of man's research into the world about him. (International Film Bureau)

4739 SEA OTTERS OF AMCHITKA (Color) (47 minutes) $18.00

Stresses in detail the life history, ecology and behavior of the sea otter, a fur-bearing marine member of the weasel family. Shows the animal in its environment, Amchitka Island in the western Aleutians of Alaska. Points out its relationship with other animals, food habits, mother-pup relationships and group social behavior. (Thorne)

6742 SEA RIVER (Color) (13 minutes) $2.00
Reports on the finding of the 1963 U. S. Geological Survey team in securing data on the world's greatest river, the Amazon. Shows some of the methods used in determining the river's discharge, sediment, chemical makeup, total flow, etc. (USDI)

5875 SEA URCHIN (9 minutes) $2.25
Shows in considerable detail the life cycle of the sea urchin. Pictures structure, locomotion, food-getting and reproductive processes of the adult. Gives excellent microscopic detail of egg fertilization and development of the embryo through cell division and maturation into a mature sea urchin. (United World)

1949 SEASHORE (10 minutes) $2.00
The ocean coastline and its plant and animal life shown during high and low tide phases. Close-up and leisurely photography revealing kelp, many types of mollusca, ocean birds, and tide pools which contain starfish, urchins, mollusca, crabs, limpets and an octopus. (Barr)

1950 SEASHORE LIFE (Color) (11 minutes) $4.00
Pictures a cross section of seashore life. Shows a great variety of living creatures over and under the water and on the beach. Shows gulls and terns, crabs, clams, barnacles, squid, starfish, sea urchins and strange creatures like the clam worm, sea raven and skate. Stresses the never ending search for food among creatures of the seashore.

1993 SHELL FISHING (11 minutes) $2.00
"Overview of the oyster, crab, clam and lobster fishing industries on the eastern coast of the United States. Preparing the oyster beds, planting and dredging for the mature oysters, and their preparation for market make-up the oyster sequence. Luring crabs to their nets with baiting lines, crab fishermen find to be both sport and work. Clam fishermen, under the supervision of conservation agencies, are revealed planting, harvesting, and preparing their crops for market in a manner similar to the methods of the oyster fishermen. Lobstermen, after dumping their catches from baited traps, take the lobsters to nearby factories where they are packed in ice or boiled for shipment and consumption." (EBF)

3175 SHRIMP PLEASE (Color) (21 minutes) $2.00
Shows the methods used by the Louisiana and Mississippi shrimp industry to make shrimp available for tables all over the United States. Includes blessing of the fleet, exploratory fishing for shrimp, shrimp processing including freezing, breading, drying and canning. Contains information on how to purchase, prepare and serve shrimp. (For general audiences, but especially useful in school at almost all levels and for people interested in good food.) (USDI)

4213 SIMPLE PLANTS: ALGAE AND FUNGI (Color) (15 minutes) $5.00
Describes and explains the major characteristics of the botanical group known as simple plants (Thallophyta) and their values in relation

to mankind. Explores simple plants in their natural, often obsecure habitats--the rivers, lakes and deep seas of the algae; the damp, secluded world of the fungi; and the microscopic world of such fungi as bacteria. (Cornet)

8524 SPAWNING BEHAVIOR OF THE CHAR (Color) (14 minutes) $3.50
Shows the natural sequences of construction of the nest of the male and female char (trout) and the cooperative behavior associated with laying of the eggs and fertilizing them. Filmed by Drs. Fabricuis and Gustafson. (Institute of Freshwater Research, Sweden)

8523 SPAWNING BEHAVIOR OF THE PIKE $3.50
(Silent) (Color) (14 minutes)
Gives a natural and clear sequence on the bahavioral movements of male and female northern pike before and during spawning. Filmed by Drs. Fabricius and Gustafson. (Institute of Freshwater Research, Sweden)

5624 SPONGE--TREASURE FROM THE SEA (Color) (14 minutes) $2.00
Relates the story of the natural sponge industry of Tarpon Springs, Florida. Depicts such events as the "silent" sponge auction, the "Blessing of the Waters," and the dive for the Golden Cross. Shows underwater sequences of "hard hat" diving for sponges. Gives information on the biology and uses of natural sponge. (USDI)

4530 STORY OF A TROUT HATCHERY (THE) (Color) (13 minutes) $5.00
Tells a story about fish life showing the biological development of the trout from egg to fully grown adult. Illustrates the fun of fishing and the importance of conservation. Shows how a fish hatchery operates and how state governments serve the recreational needs of their citizens. (Athena)

4855 STORY OF THE ST. LAWRENCE SEAWAY (Color) (13 minutes) $5.50
Records the development of one of the world's great waterways, the St. Lawrence Seaway. Uses animated drawing to recall the past, maps to show the extent of the system, and documentary footage to illustrate highlights in its building. Emphasizes the importance of this new and economical water transport route to Canada and the United States. Shows in detail the operation of the systems of locks as ships move from the river, to canals, to the lakes, and on to inland ports. (McGraw-Hill)

6205 SUMMER-LIKE WESTERLY WEATHER WITH COOL AIR FROM THE SEA
(BAVARIAN ALPINE FORELAND) (Color) (8 minutes) $2.75
Shows the course of the daily weather in summer under the influence of maritime polar air. Follows the cycle after the occurrence of the first small breaks in the morning's stratified cloud layer through the strong convection of the rapid heating of the land surface to showers and thunderstroms in the afternoon and establishment of the stratified cloud layer again during the night. Narration in German. (Instit. Fur Wissenschaftlichen Film)

2142 SUNFISH (11 minutes) $2.00

Habitat, characteristics, and development of the common sunfish. Unusual submarine photography of nest construction, laying of eggs, fertilization, hatching, and development of the young against predatory hazards. Role of the male in constructing the nest, fertilizing the eggs laid by his mate, and the subsequent care. (EBF)

6928 3RD POLLUTION (Color) (22 minutes) $7.50

Considers solid waste management and the various management alternatives available to communities. Emphasizes expense and technical challenge in eliminating air and water pollution. (Stuart Finley)

2242 TINY WATER ANIMALS (10 minutes) $2.00

Describes with microscopic studies the life processes of amoebae and paramecia, with major emphasis on the former including time-lapse scenes of its reproduction. The activities of the rotifers; ciliate, chestnut-shaped, and the chiloden protozoa; nematode and bristle worms, swan animalcule, stentor, volvox, and desmids. The shape and movements of human white blood corpuscles compared with those of the amoeba. (EBF)

3730 TRANSPORTATION: AMERICA'S INLAND WATERWAYS (11 minutes) $3.00

Combines scenes of activity on some of the most important lakes, rivers, and canals that form a network of transportation routes, with map animation to stress the importance of the inland waterways to our country. Presents the historical background of some of the major waterways and the cargoes carried on them. (Cornet)

2263 TRAPPERS OF THE SEA (Color) (10 minutes) $3.50

The cooperative lobster fishing activities of Larry's River, Nova Scotia, shown through excellent color photography and good sound. The village environment, the preparation of buoys, traps, and traplines shown leisurely and with great understanding. The actual setting of the traps, hauling, taking of the lobsters, and return to the cannery explained interestingly and comprehensively. (National Film Board of Canada)

2293 TUNA FISHER (Color) (11 minutes) $3.50

Describes the entire process of commercial fishing for tuna. Shows the locale of the best tuna fishing grounds near the Galapagos Islands and the bait-catching area of the Gulf of Fonsecos in color maps. Includes in beautiful color the cruise southward on a specially built tuna fishing ship, the catching and stowing of live bait, preparation of tackle, fishing with heavy pole and line, and placing the catch in refrigerated wells. (Hoefler)

2294 TUNA PACKING (Color) (11 minutes) $3.50

Follows immediately after film, TUNA CATCHING. Shows the catch being thawed with seawater, unloaded and weighed in; the cleaning, cooking, and packing processes in detail; the careful government inspectors checking each step so that none but good, healthy fish are used. Includes the cans being mechanically salted, oiled and sealed; sterilized in huge vats, then labeled, packed and loaded into freight cars. An excellent film on the care and complicated effort which make up an important seacoast industry. (Hoefler)

5337-5338 UNCHAINED GODDESS (Color) (55 minutes) $3.25
Explains what makes weather and then shows what scientists are doing to preidct it and to attempt control of it. Includes what science has learned about winds, clouds, precipitation, and lightning. Shows how these combine to make weather. Features spectacular photography of various weather conditions. (Wisconsin Telephone Company)

2903 WATERS AROUND US (THE) (22 minutes) $2.00
Deals with the problem of water pollution as it affects a large city and depicts the purification of water and treatment of waste sludge at a large sewage plant. Shows the need for getting at the facts, how community problems must become the problems of individuals, and vice versa. (Movielab)

6347 WAVES ON WATER (Color) (16 minutes) $6.00
Shows characteristics of waves and wave motion on various bodies of water. Identifies sources of wave energy including wind and earthquakes. Demonstrates basic wave principles in laboratory wave tanks such as water motion, length of wave crests, and why waves break. (EBF)

0488 WHAT CAN WE DO ABOUT FLOODS? (Color) (20 minutes) $2.00
Dramatically documents Wisconsin's recurring flood problem in cities and countryside. Shows the wasteful, expensive and discouraging results of ravaging water. Develops the idea of flood plain zoning--"keeping people out of the path of floods instead of trying to keep floods out of the paths of people." (University of Wisconsin)

6127 WHAT'S HAPPENING TO OUR LAKESHORES? (Color) (25 min.) $2.00
Depicts the natural beauty of Wisconsin's lakes and their recreational characteristics. Considers ways in which, through research and orderly lakeshore development plans, beauty may be preserved, fishing and recreational aspects improved and sanitation assured. (University of Wisconsin)

6536 WHAT'S HAPPENING TO OUR LAKESHORES? (Color) (10 min.) $2.00
Shows how shorelines are recklessly stripped of trees and other natural cover, and cluttered with marinas, boathouses, and with cottages built too close together and too close to the water. Tells how faulty or inadequate septic disposal systems cause overgrowth of weeds and algae. Gives some advice for individuals planning to build lakeshore homes. Suggests that plans for orderly development can gain some public control over exploitation of lakes, and insure their continued recreational value for all the people. (University of Wisconsin)

2189 WISCONSIN RIVER (THE) (Color) (15 minutes) $2.00
Tells the story of the Wisconsin River valley and the so-called "hardest working river in the nation." Describes the twenty-six hydroelectric plants and twenty-one storage reservoirs and the part they play in controlling water to prevent floods and in providing even power. Gives a good picture of life in the valley. (Wis. Power and Light)

5527 WISCONSIN'S GREAT LAKES FISHERMEN (Color) (20 minutes) $2.00
Shows the equipment and techniques used by the state's 400 commercial fishermen as they annually take over 15 million pounds of fish from the Great Lakes. Includes gill net fishing for herring around the Apostle Islands, fishing through the ice for perch on Green Bay, a smelt run near Algoma, and fishing for chubs from large boats out of Milwaukee Harbor. Also shows how sea lampreys ruined lake trout fishing and the steps fish biologists are taking to control this pest. (U. of Wis.)

2475 WONDERS OF THE DEEP (10 minutes) $2.00
Presents an intriguing survey of the work of frog divers--divers with foot fins and bottles of compressed air. Shows motion pictures taken 80 feet below the surface and the value of undersea photography in salvage operations. Pictures actual scenes inside a sunken ship. Closes with dramatic shots of a submerged submarine firing torpedoes. (BIS)

2484 WORK OF RIVERS (11 minutes) $2.00
Treats the erosion cycle of water on the earth's crust. Animation which illustrates the undermining effect on waterfalls. Stream table demonstrations of the formation of oxbows, sandbars, and deltas. Examples of different forms of erosion, young and old river valleys, deltas, oxbow lakes, meanders, rejuvenated rivers, water gaps, alluvial fans, sandbars, the water cycle in nature and flood control. (EBF)

7051 ECHINODERMS AND MOLLUSKS (Color) (16 minutes) $6.00
Reveals many varieties of echinoderms and mollusks in their natural habitats. Examines the development of the sea urchin egg under magnification. Studies the reproductive system of the clam. Shows the radial plan of the echinoderms and the bilateral body plan of mollusks. (Cornet)

OTHER SOURCES OF FILMS AND FILMSTRIPS

B. Other sources of Films and Filmstrips

Bureau of Commercial Fisheries
Fish and Wildlife Service
Department of the Interior
Washington, D.C. 20240

"Deep Frontier" - An introduction to oceanography. Narrated color filmstrip, 17 minutes, 83 frames, accompanying pamphlet. (On loan)

"Fishery Motion Pictures", Leaflet 452

Coast and Geodetic Survey
Environmental Science Services Administration
Washington Science Center
Rockville, Maryland 20852

Films (16-mm with soundtrack) for 3-day loans to school:

"Surveyor at Work"

"The EXPLORER Oceanographic Expedition"

"Tides and Currents"

"Tsunami" (the story of seismic sea waves)

"Georges Bank Studies"

Coast Guard Headquarters, Commandant (CPI)
1300 E Street, N.W.
Washington, D.C. 20004

Also available through your local C. G. District Office

Films (16-mm with soundtrack, black and white, running time 15 minutes). (On loan for postage)

"Oceanography" (60 35-mm slides with printed narration)

Encyclopedia Britannica Films, Inc.
Chicago, Illinois

"Oceanography--Our Deep Frontier" (accompanied by four LP records for narration)

Institute of Marine Science
University of Miami
1 Rickenbacker Causeway
Virginia Key
Miami, Florida 33149

Sound film, 16-mm (On loan)

"And Now The Sea"

National Oceanographic Data Center (NODC)
Building 160, 3rd Floor
Navy Yard Annex
Washington, D.C. 20390

Ten films and/or filmstrips are available on loan including:

"Project Mohole"

"Tsunami"

"Saline Water Conversion Report"

Naval Oceanographic Office
Department of the Navy
Washington, D.C. 20390
ATTENTION: Public Information Office

Films, 16-mm, such as:

"Careers in Oceanography" (and many others)

UNESCO
Radio and Visual Information Division
Paris, France

"The Sea" with 71 page booklet

"Discovering the Ocean" with 77 page booklet